

SET 1879 FOLDER 2

PHOTOFACT® Folder

with CIRCUITRACE™

SONY MODEL KV-1543R
(Ch. SCC-207B-A)

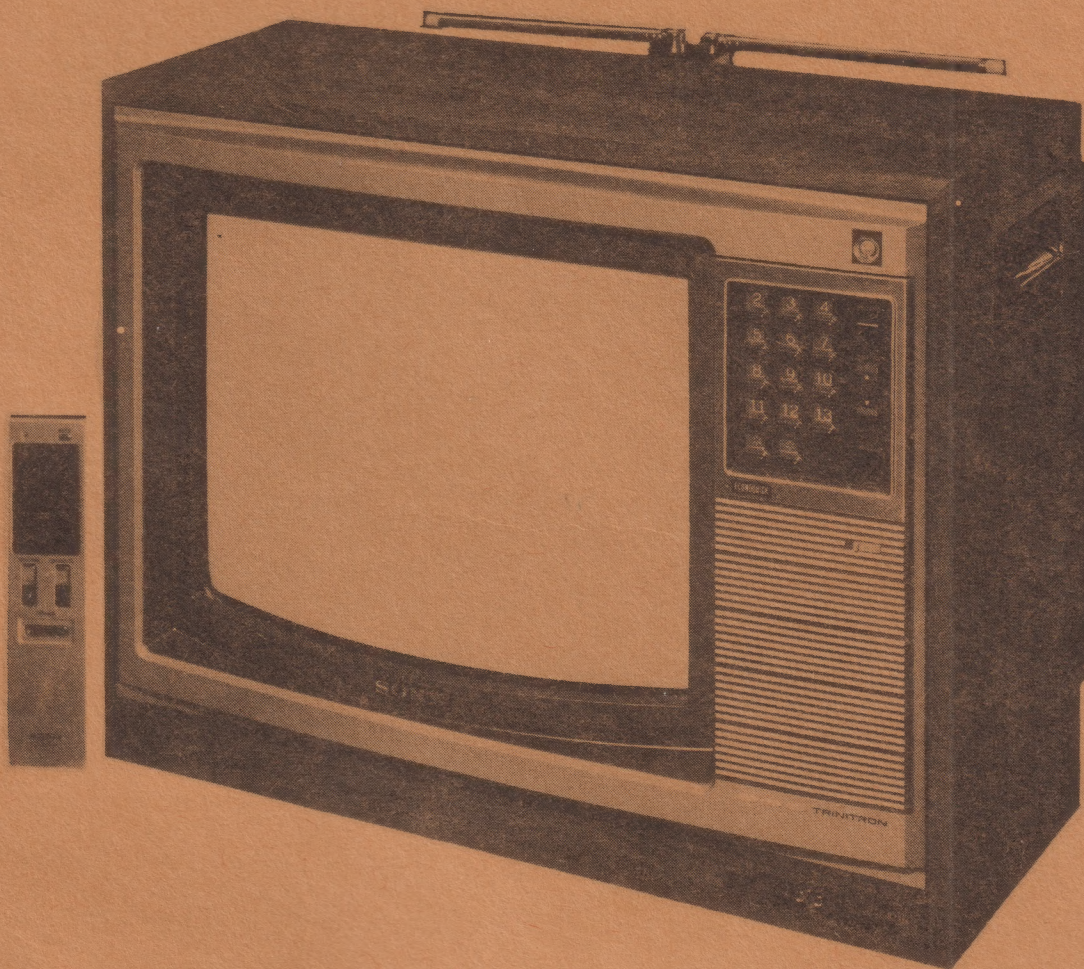
COLOR TV

IMPORTANT FILING NOTICE

The TV Folder for this envelope will be found among the first folders in this complete Set of Folders.

Merely insert the corresponding folder on this model in this envelope to retain proper filing and indexing order.

SONY MODEL KV-1543R
(Ch. SCC-207B-A)



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Model KV-1543R

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed.

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DATE 2-80

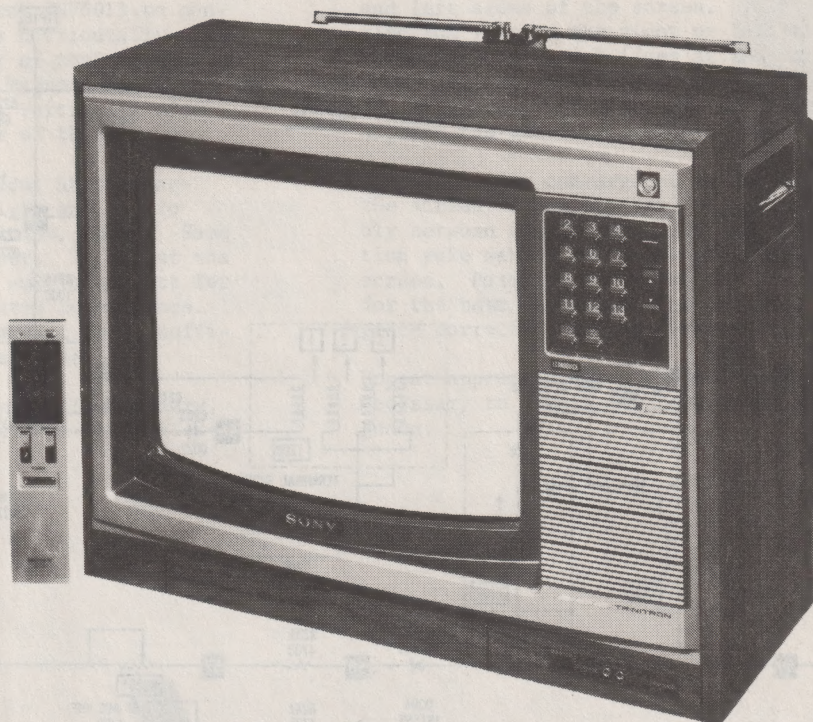
SET 1879 FOLDER 2

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For Supplier Address See PHOTOFACT Index

COLOR TV

SONY MODEL KV-1543R
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SAFETY PRECAUTIONS

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Model KV-1543R

SERVICE INFORMATION

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SET 1879 FOLDER 2

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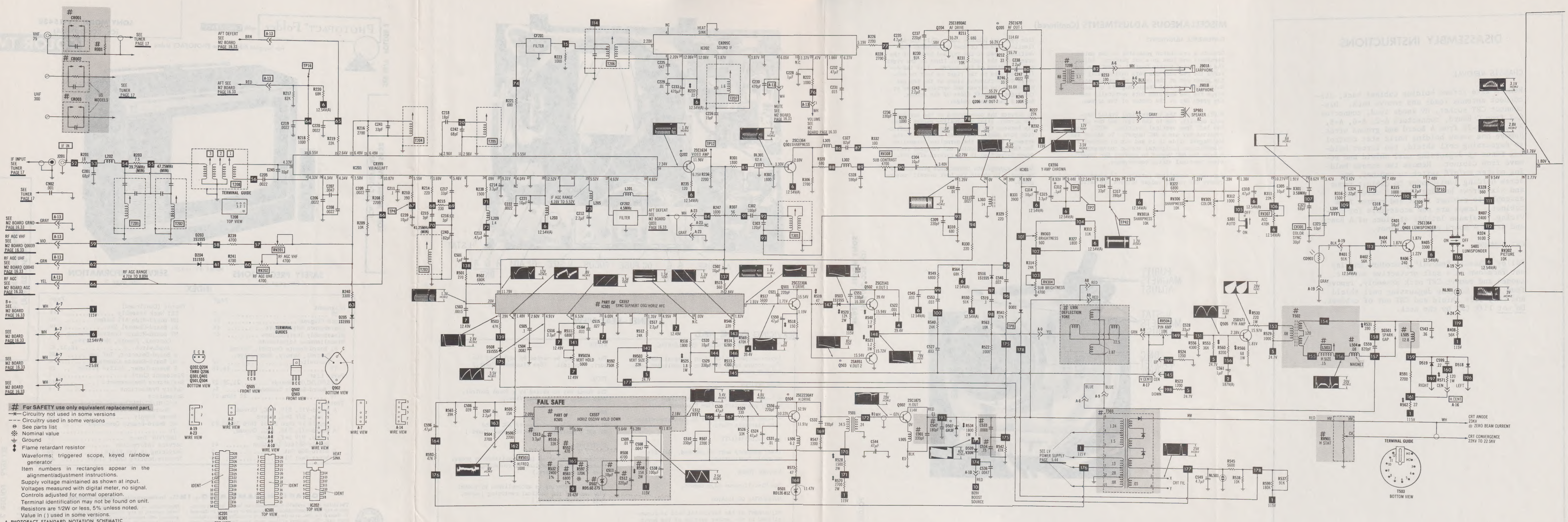
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SET 1879 FOLDER 2





For SAFETY use only equivalent replacement parts.

- Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊕ See parts list
- ⊗ Nominal value
- ⊕ Ground
- ⚡ Flame retardant resistor

Waveforms: triggered scope, keyed rainbow generator

Item numbers in rectangles appear in the alignment/adjustment instructions.

Supply voltage maintained as shown at input.

Voltages measured with digital meter, no signal.

Controls adjusted for normal operation.

Terminal identification may not be found on unit.

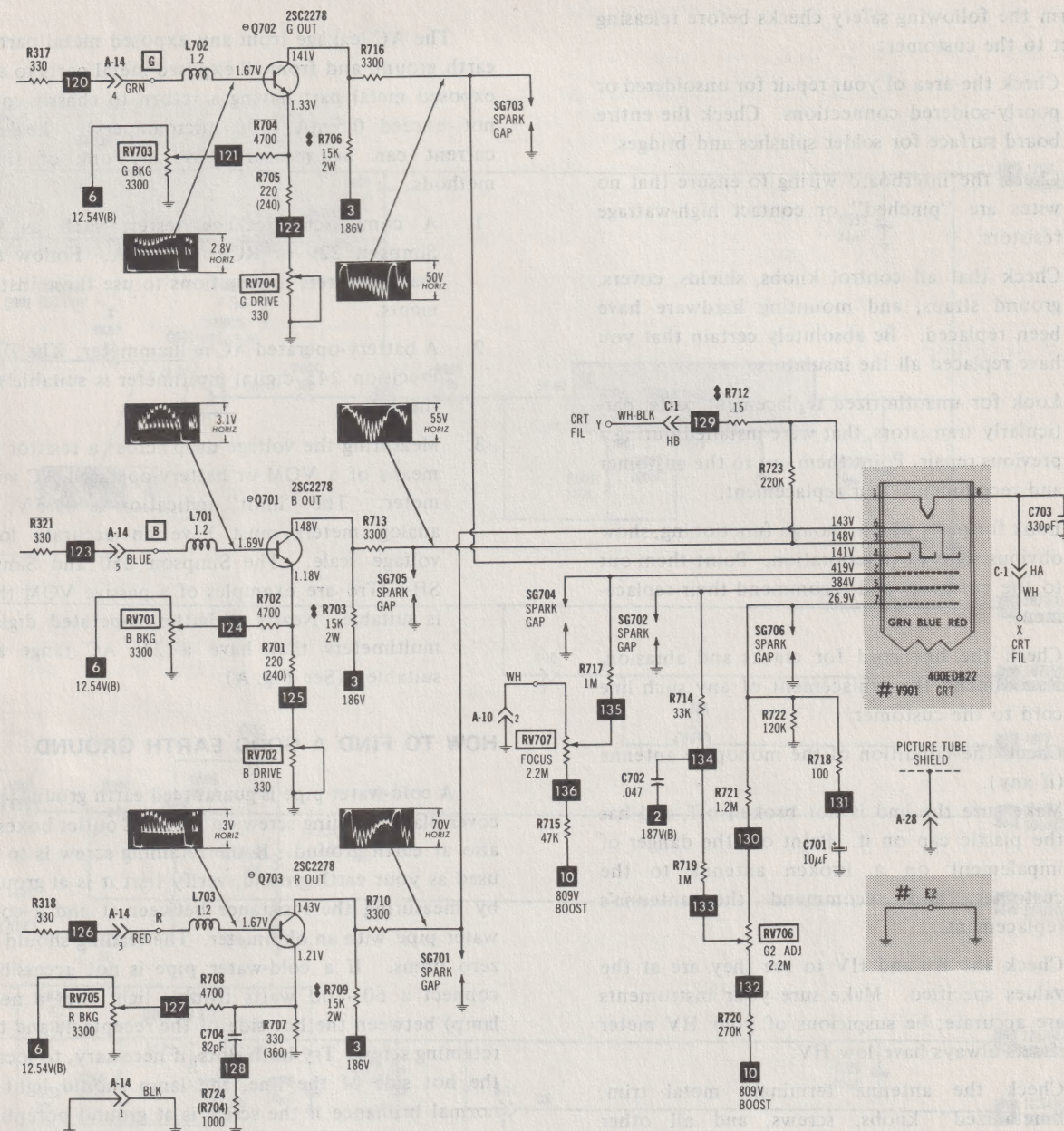
Resistors are 1/2W or less, 5% unless noted.

Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE™**

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For SAFETY use only equivalent replacement part.

- *— Circuitry not used in some versions
- Circuitry used in some versions
- ⊙ See parts list
- ⊗ Nominal value
- ⊕ Ground
- ◆ Flame retardant resistor

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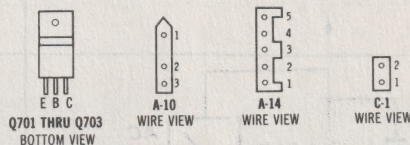
Value in () used in some versions.

A PHOTOFACT STANDARD NOTATION SCHEMATIC

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TERMINAL GUIDES



Q701 THRU Q703
BOTTOM VIEW

A-10
WIRE VIEW

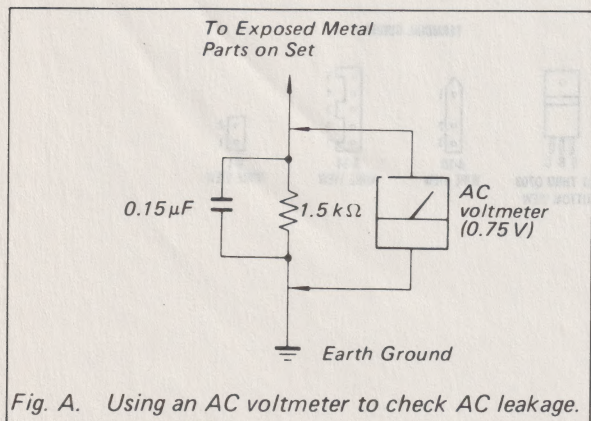
A-14
WIRE VIEW

C-1
WIRE VIEW

SAFETY PRECAUTIONS

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



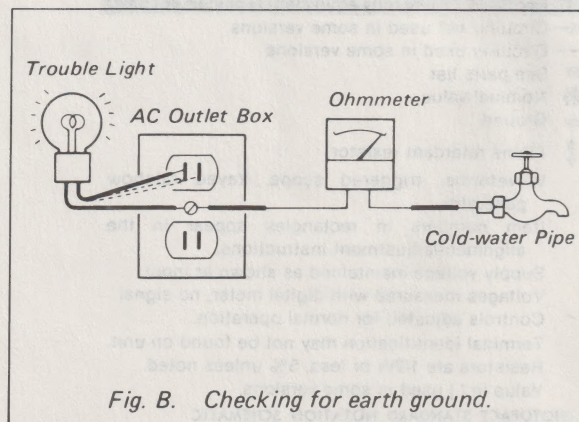
LEAKAGE TEST

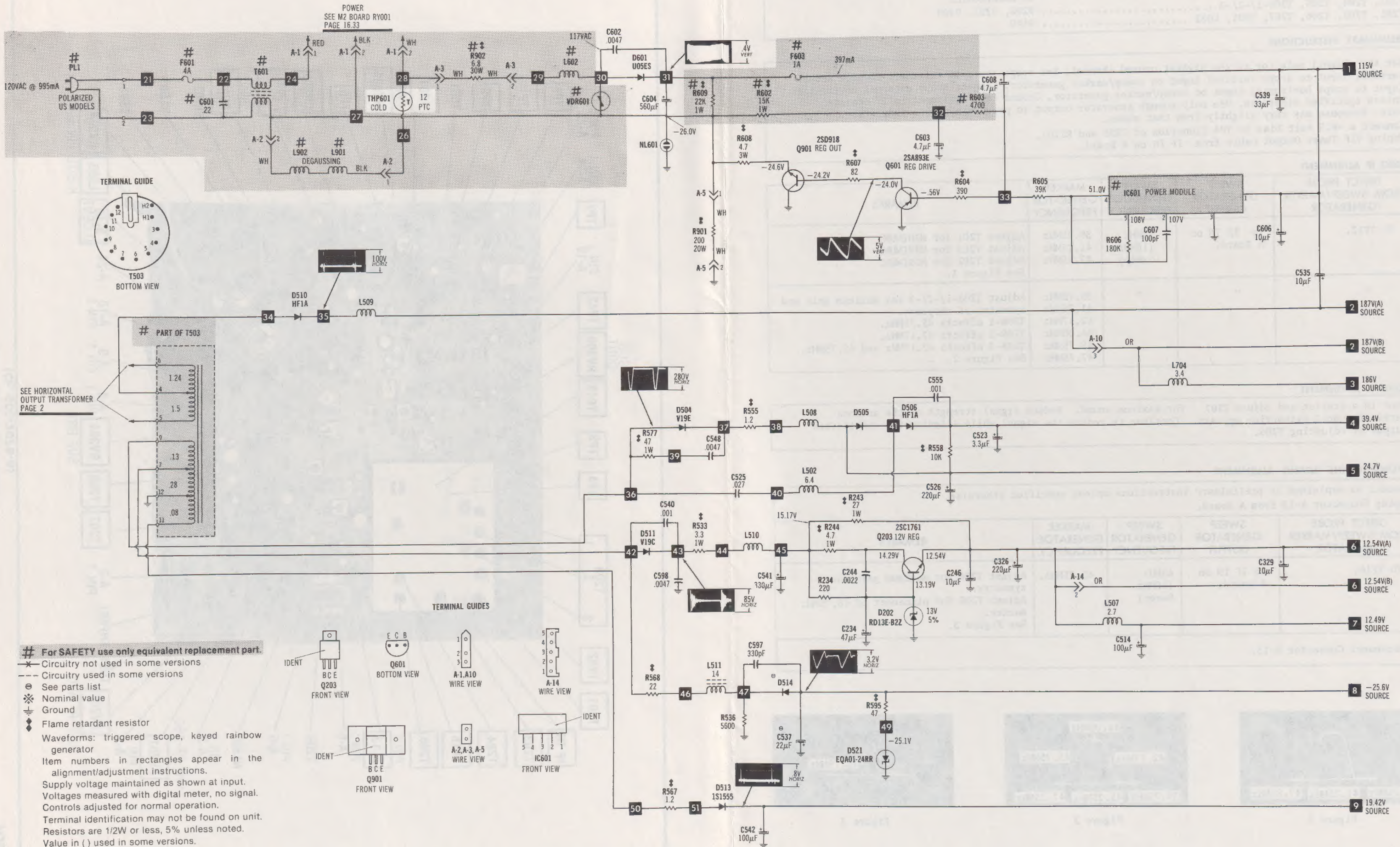
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)





TV ALIGNMENT INSTRUCTIONS

Use an isolation transformer, or observe polarity, and maintain line voltage at 120VAC. Allow a 20-minute warm-up period for receiver and test equipment.

Suggested Alignment Tools:

GC ELECTRONICS

T203, T204, T205, T208-1/-2/-3 9296, 9297, 9300

T201, T202, T206, T207, T301, L032 9440

PRELIMINARY INSTRUCTIONS

Set the channel selector to the highest unused channel. Set scope sweep to external. Connect scope vertical input to scope vertical input on sweep/marker generator. Connect scope external horizontal input to scope horizontal input on sweep/marker generator. Ground test equipment to TV chassis unless specified otherwise. Use only enough generator output to provide a usable indication.

Note: Response may vary slightly from that shown.

Connect a +4.5 volt bias to TP4 (junction of C239 and R210).

Unplug VIF Tuner Output cable from IF IN on A Board.

VIDEO IF ALIGNMENT

DIRECT PROBE FROM SWEEP/MARKER GENERATOR	SWEEP GENERATOR OUTPUT	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	REMARKS
To TP12.	To IF IN on A Board.	44MHz (10MHz Sweep)	39.75MHz 41.25MHz 47.25MHz	Adjust T201 for MINIMUM. Adjust T203 for MINIMUM. Adjust T202 for MINIMUM. See Figure 1.
"	"	"	39.75MHz 41.25MHz 42.17MHz 44.00MHz 45.75MHz 47.25MHz	Adjust T208-1/-2/-3 for maximum gain and symmetry of response. T208-1 affects 45.75MHz. T208-2 affects 42.17MHz. T208-3 affects 42.17MHz and 45.75MHz. See Figure 2.

SOUND IF ALIGNMENT

Tune in a station and adjust T207 for maximum sound. Reduce signal strength at the antenna terminals until distortion appears. Continue to reduce the signal while aligning for undistorted output by adjusting T206.

AUTOMATIC FINE TUNING ALIGNMENT

Connect as explained in preliminary instructions unless specified otherwise.

Unplug Connector A-13 from A Board.

DIRECT PROBE FROM SWEEP/MARKER GENERATOR	SWEEP GENERATOR OUTPUT	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	REMARKS
To TP16.	To IF IN on A Board.	44MHz (10MHz Sweep)	45.75MHz.	Adjust T204 for maximum gain and symmetry. Adjust T205 for placement of 45.75MHz marker. See Figure 3.
Reconnect Connector A-13.				

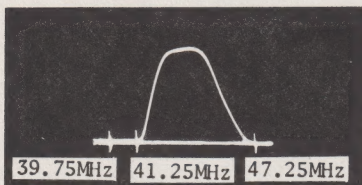


Figure 1

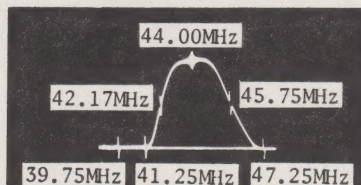


Figure 2

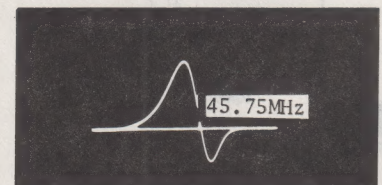


Figure 3

TV ALIGNMENT INSTRUCTIONS (Continued)

CHROMA BANDPASS ALIGNMENT

Connect as explained in preliminary instructions. Set color control to maximum and hue control to midrange.

Connect a +9 volt bias to TP5 (Pin 18, IC301).

DETECTOR PROBE FROM SWEEP/MARKER GENERATOR	SWEEP GENERATOR OUTPUT	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	REMARKS
To TP42.	To IF IN on A Board.	44MHz (10MHz Sweep)	3.08MHz 3.58MHz 4.08MHz	Adjust T301 for maximum gain and symmetry of response. See Figure 4.

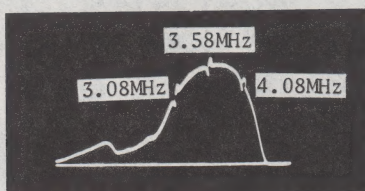


Figure 4

SONY MODEL KV-1543R
(Ch. SCC-207B-A)

SERVICE INFORMATION

R597 ADJUSTMENT

Note: When replacing the following components, make this adjustment.

IC501, D502, C513, R510, R532, R561, R597, R598

1. Connect a regulated dc power supply to the TP91 and supply 135.0 $\pm$ 1.0V dc.

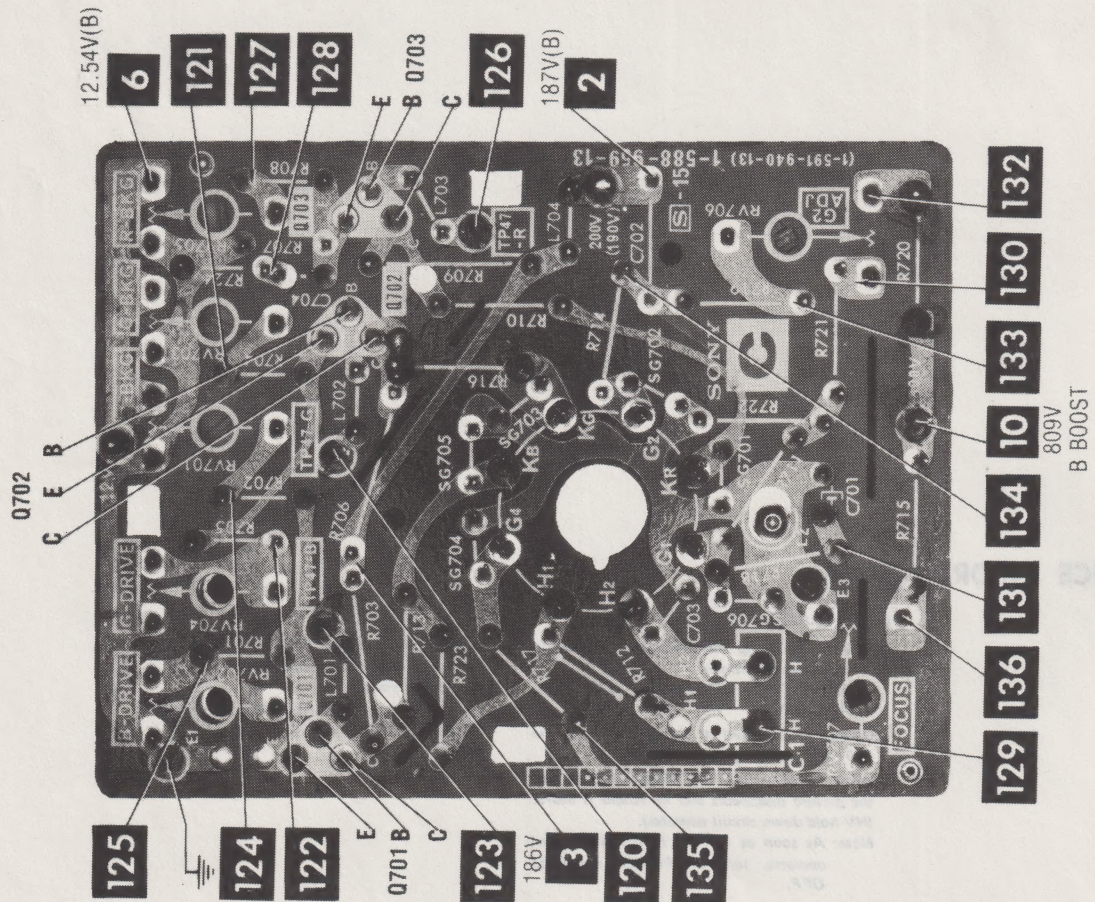
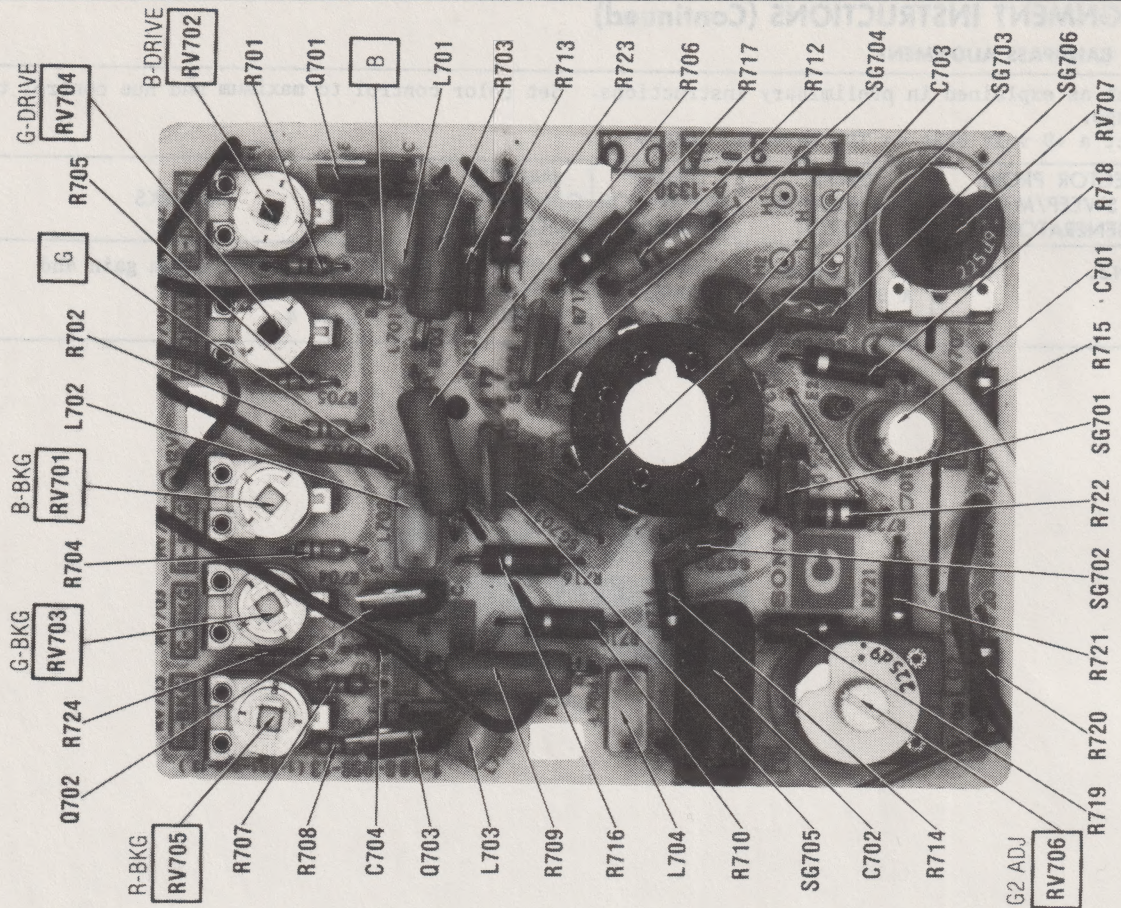
2. When the dc voltage is supplied, confirm that the picture disappears and no sound is heard. (HV hold down circuit operates).

Note: As soon as the HV hold down circuit operates, turn the POWER switch to OFF.

3. Supply 120V dc to the TP91 and confirm that the picture does not disappear and the sound is heard continuously.

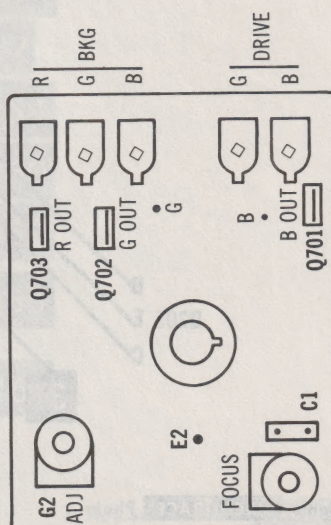
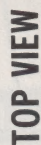
4. If the above steps is not satisfied, select resistance value of R597 and repeat above steps 1 through 3.

Courtesy of the Manufacturer

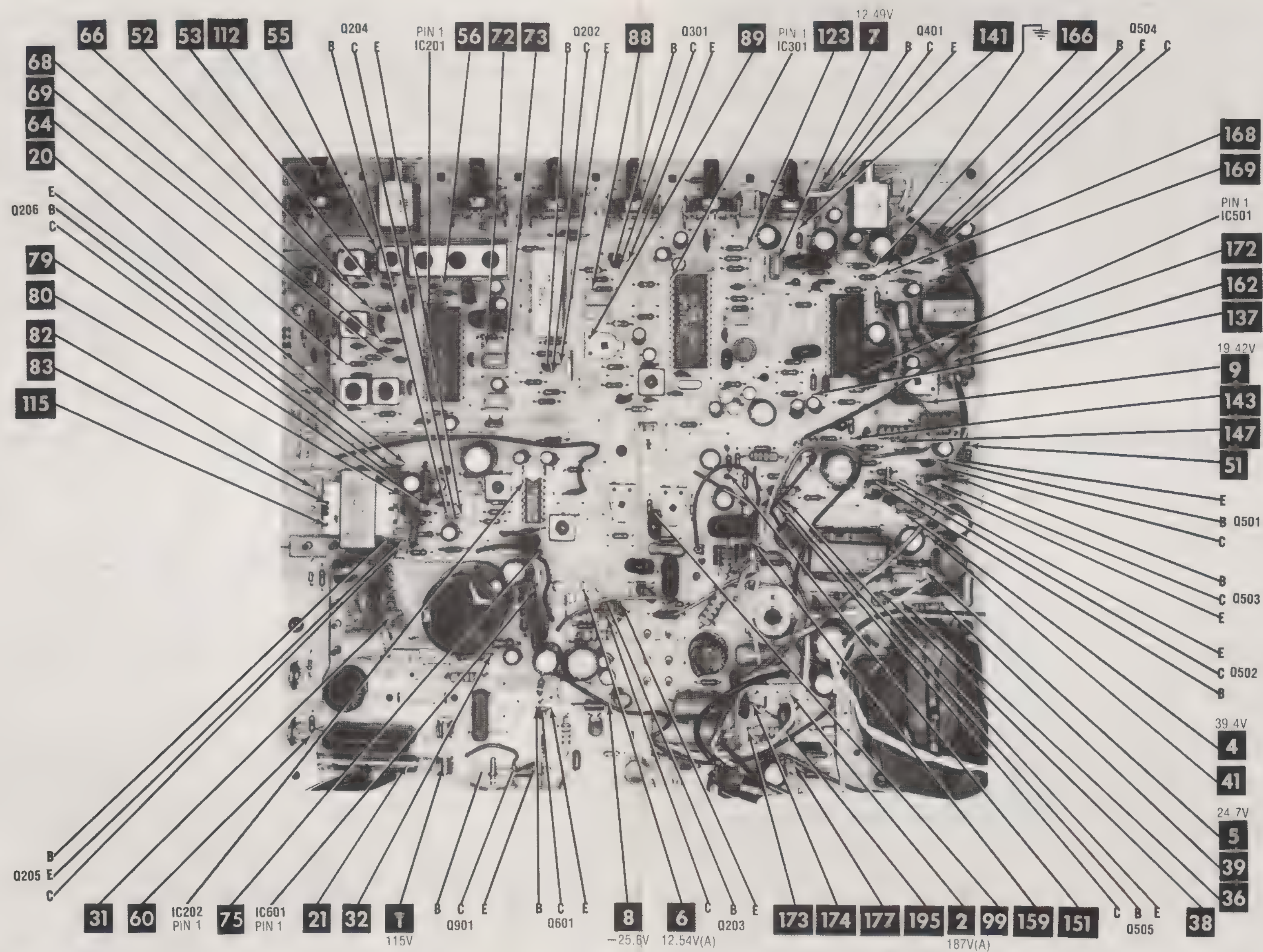


C BOARD-RGB OUT A Howard W. Sams CIRCUITRACE® Photo

FOLDER 2



PLACEMENT CHART



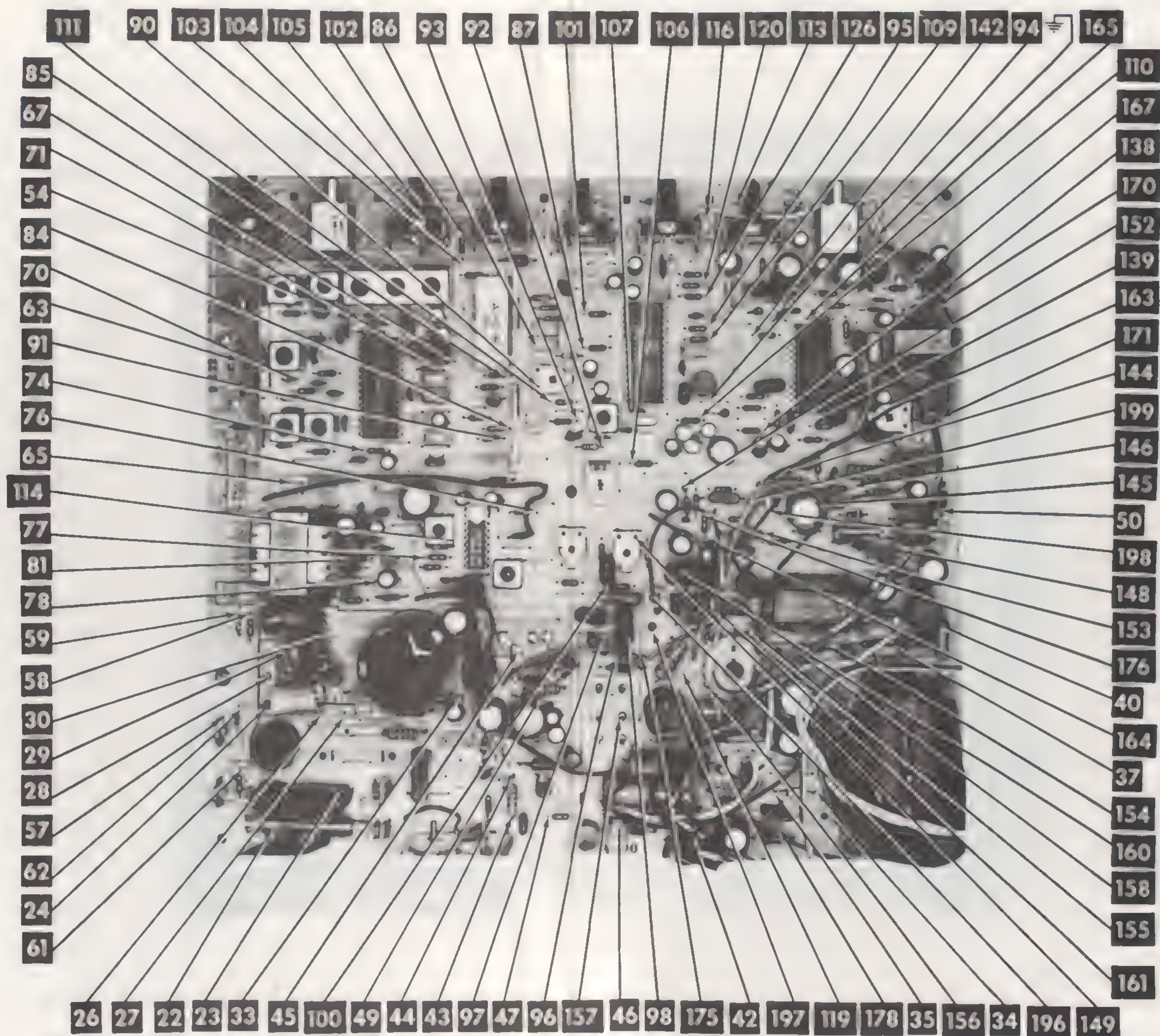
A Howard W. Sams **CIRCUITRACE** Photo

A BOARD-VIF, SIF, AGC, CHROMA, Y AMP, HV DEF, POWER SUPPLY

A BOARD-VIF, SIF, AGC, CHROMA, Y AMP, HV DEF, POWER SUPPLY

SONY MODEL KV-1543R
(Ch. SCC-207B-A)

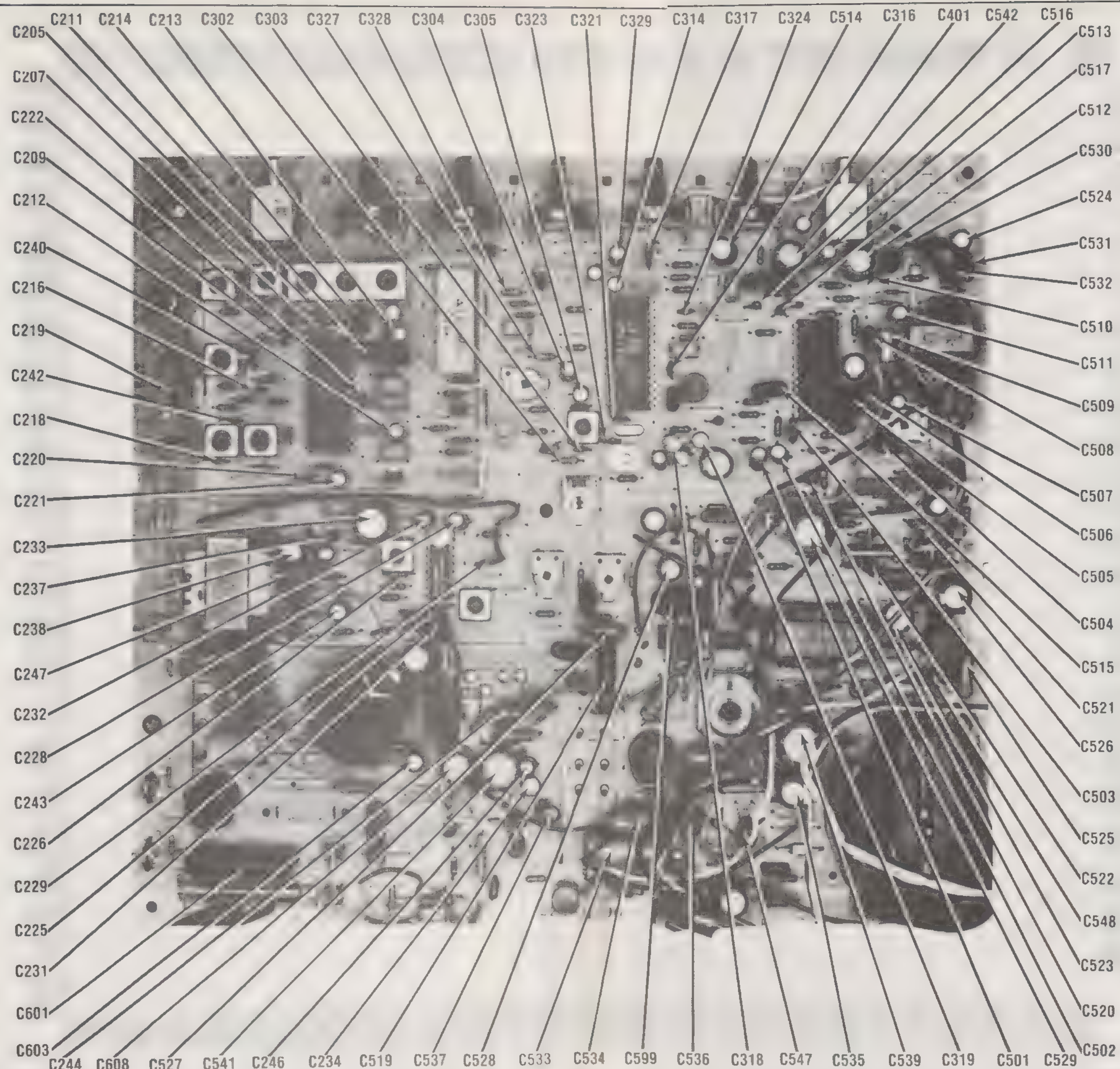
FOLDER 2



A BOARD-VIF, SIF, AGC, CHROMA, Y AMP, H/V DEF, POWER SUPPLY

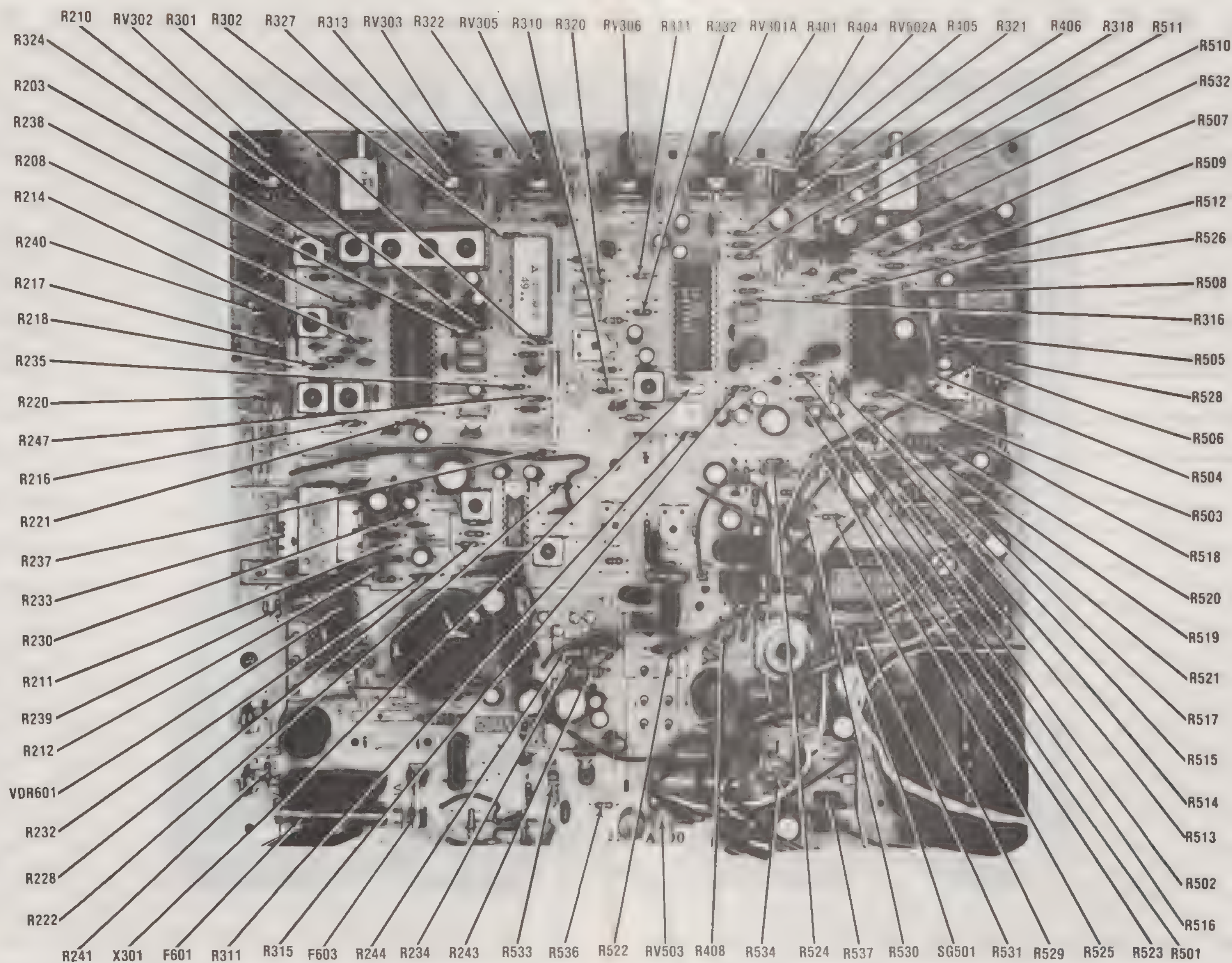
A BOARD-VIF, SIF, AGC, CHROMA, Y AMP, H/V DEF, POWER SUPPLY

A Howard W. Sams CIRCUITRACE Photo



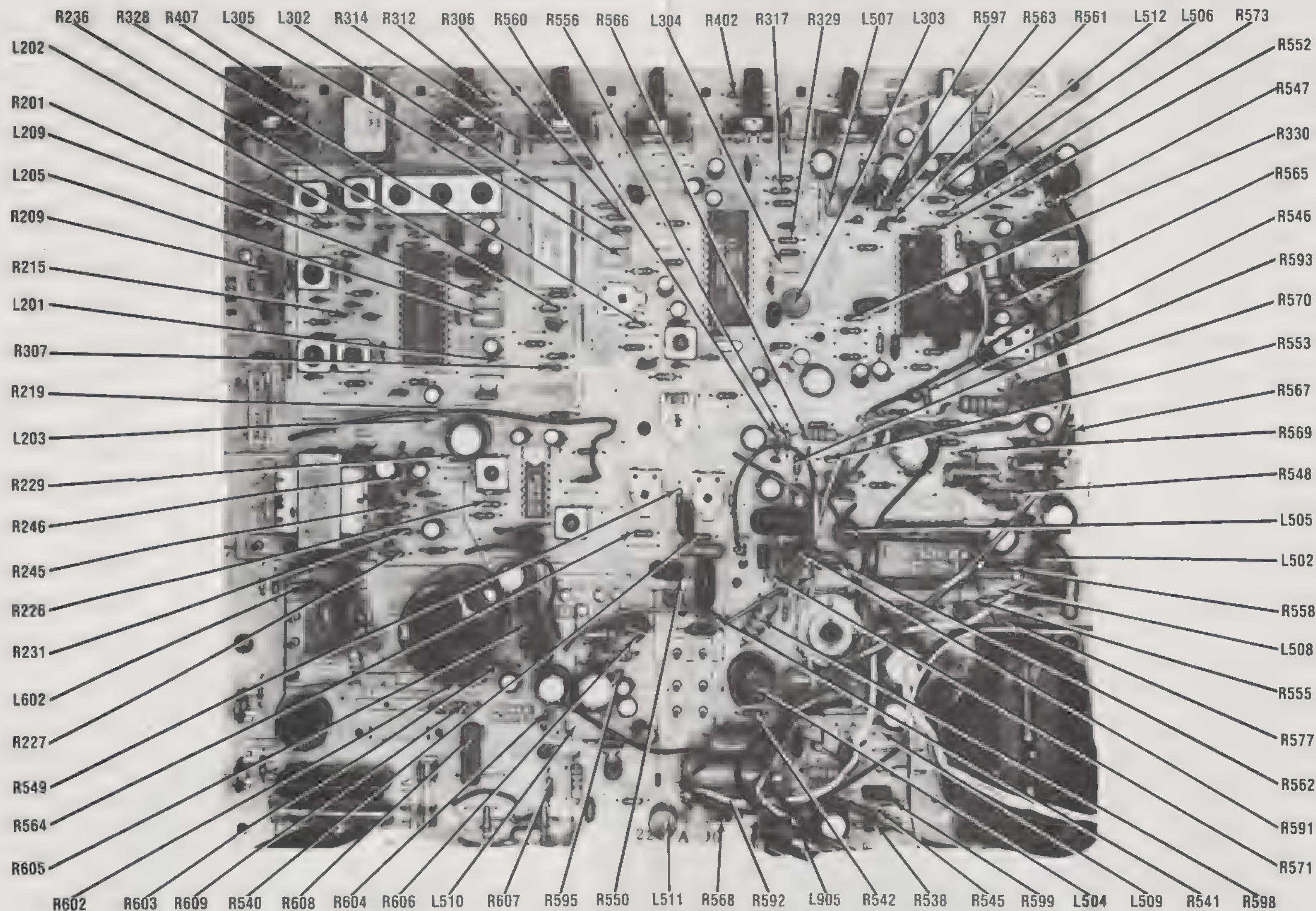
A BOARD-VIF, SIF, AGC, CHROMA, Y AMP, H/V DEF, POWER SUPPLY

A BOARD-VIF, SIF, AGC, CHROMA, Y AMP, H/V DEF, POWER SUPPLY



A BOARD-VIF, SIF, AGC, CHROMA, Y AMP, H/V DEF, POWER SUPPLY

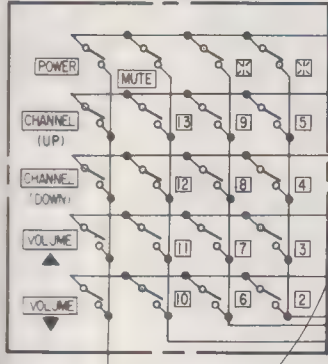
A BOARD-VIF, SIF, AGC, CHROMA, Y AMP, H/V DEF, POWER SUPPLY



A BOARD-VIF, SIF, AGC, CHROMA, Y AMP, HV DEF, POWER SUPPLY

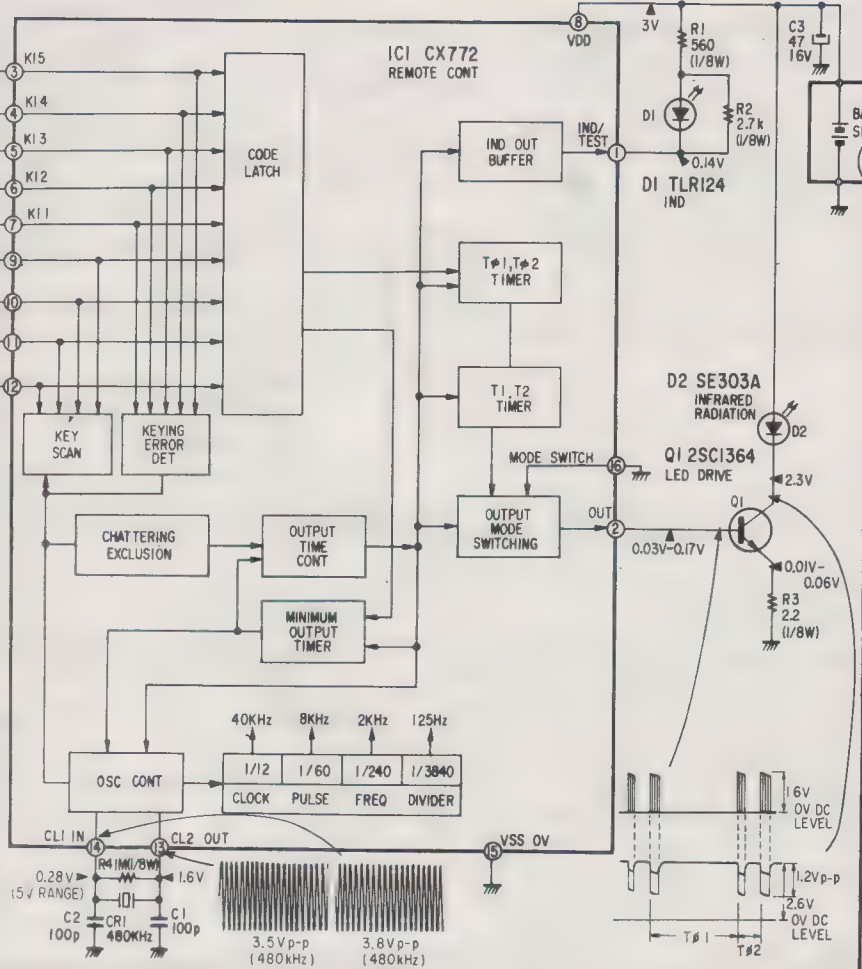
A BOARD-VIF, SIF, AGC, CHROMA, Y AMP, HV DEF, POWER SUPPLY

RC (REMOTE COMMANDER)



IC1 TERMINAL VOLTAGE(V)

TERMINAL NO	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫
CH-2	0	0	0	0	2.8	2.8	0	0	0	0
CH-3	0	0	0	2.8	0	2.8	0	0	0	0
CH-4	0	0	2.8	0	0	2.8	0	0	0	0
CH-5	0	2.8	0	0	0	2.8	0	0	0	0
CH-6	0	0	0	2.8	0	2.8	0	0	0	0
CH-7	0	0	0	2.8	0	0	2.8	0	0	0
CH-8	0	0	2.8	0	0	0	2.8	0	0	0
CH-9	0	2.8	0	0	0	0	2.8	0	0	0
CH-10	0	0	0	2.8	0	0	2.8	0	0	0
CH-11	0	0	0	2.8	0	0	0	2.8	0	0
CH-12	0	0	2.8	0	0	0	0	2.8	0	0
CH-13	0	2.8	0	0	0	0	0	2.8	0	0
CH-14	2.8	0	0	0	0	2.8	0	0	0	0
CH-15	2.8	0	0	0	0	0	2.8	0	0	0
VOLUME	0	0	0	0	3	0	0	0	0	3
VOLUME	0	0	0	3	0	0	0	0	0	3
CHANNEL (DOWN)	0	0	3	0	0	0	0	0	0	3
CHANNEL (UP)	0	3	0	0	0	0	0	0	0	3
POWER	3	0	0	0	0	0	0	0	0	3
MUTE	2.8	0	0	0	0	0	0	2.8	0	0

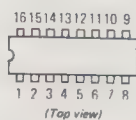


A-1470-278-A

Note:

- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μF
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000k Ω
- $\square$: panel designation.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltage variations may be noted due to normal production tolerances.

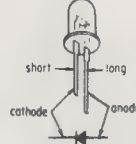
CX772



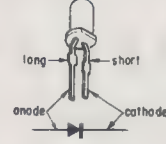
2SC1364



SE303A



TLR124



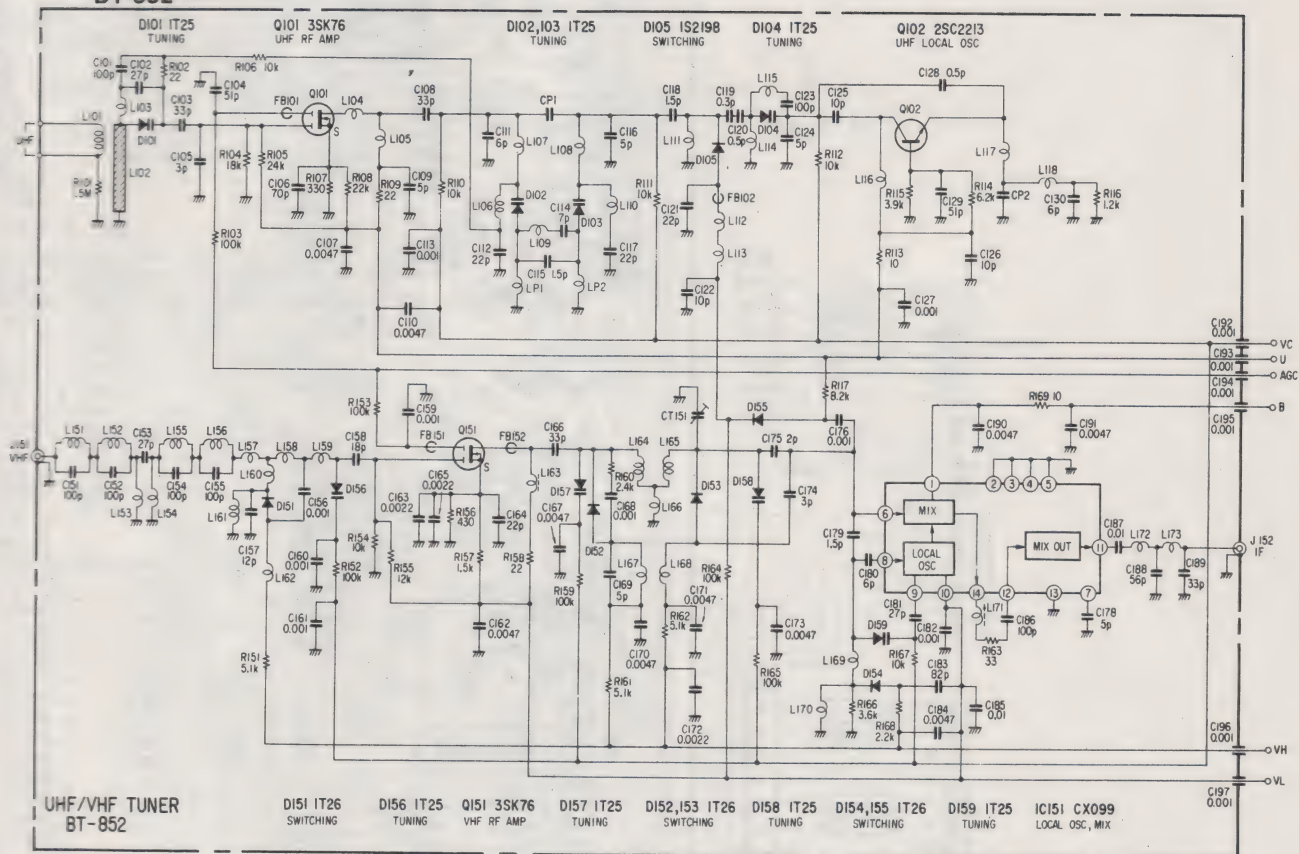
SONY MODEL KV-1543R
(Ch. SCC-207B-A)

FOLDER 2

RC BOARD-REMOTE COMMANDER

UHF/VHF TUNER SCHEMATIC DIAGRAM

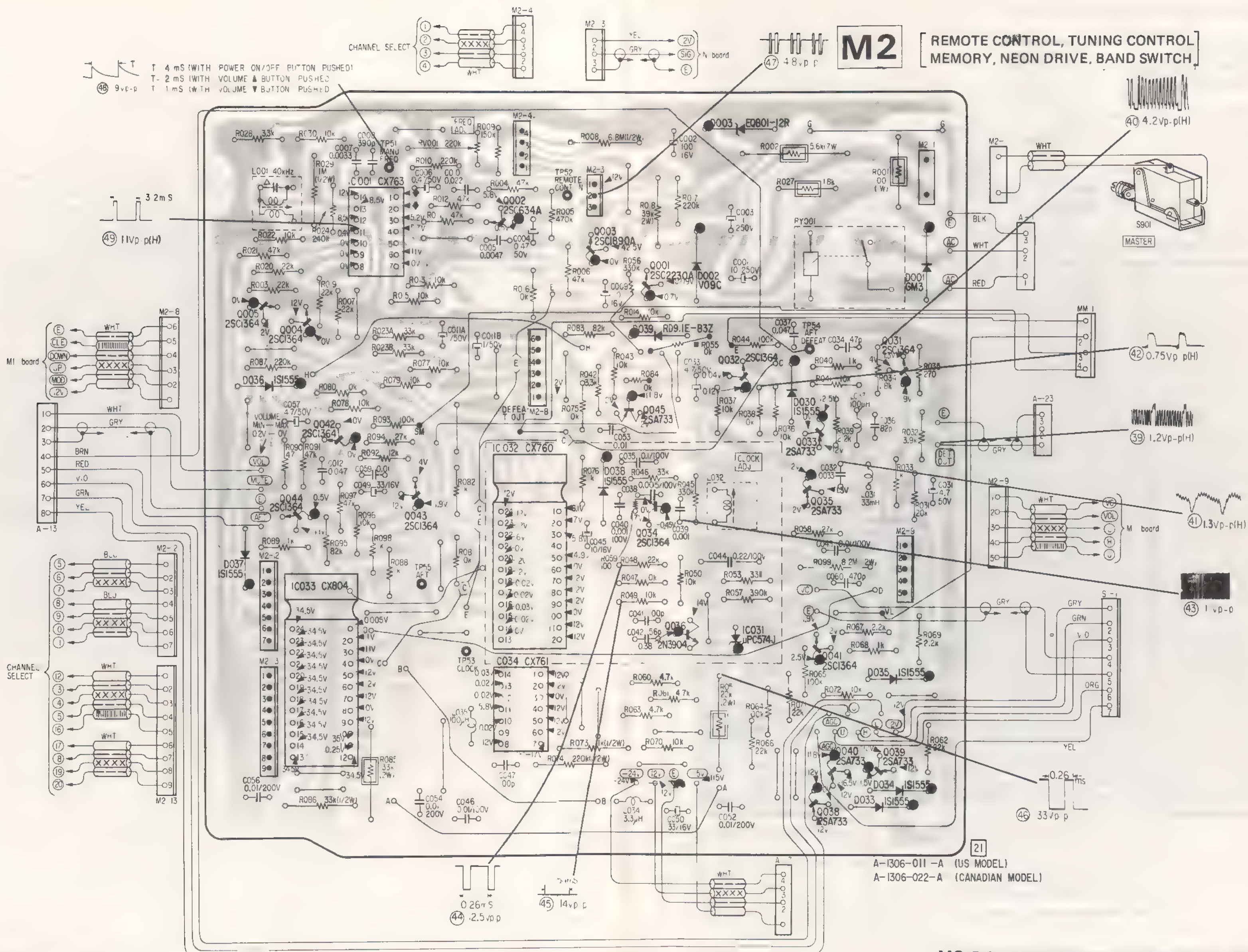
-- BT-852 --



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(Ch. SCC-207B-A)

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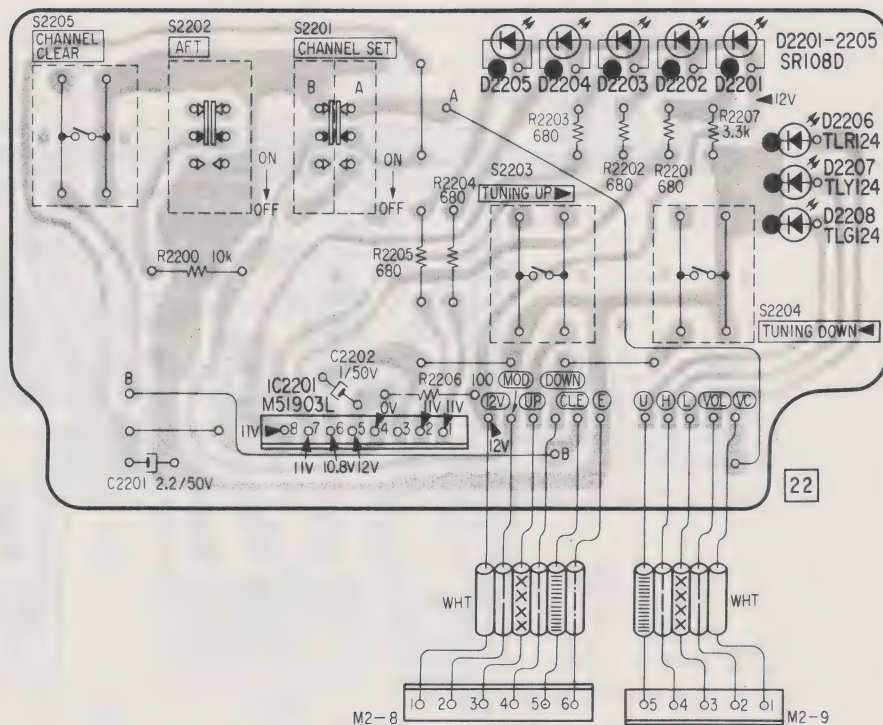
UHF/VHF TUNER



M1

[CHANNEL SET]

— M1 Board —

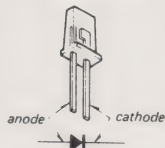


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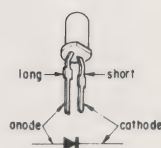
M51903L



SR108D-M



TLG124
TLR124
TLY124



Note:

- — : parts extracted from the component side.
- — : parts extracted from the conductor side.

FOLDER 2

M1 BOARD-CHANNEL SET

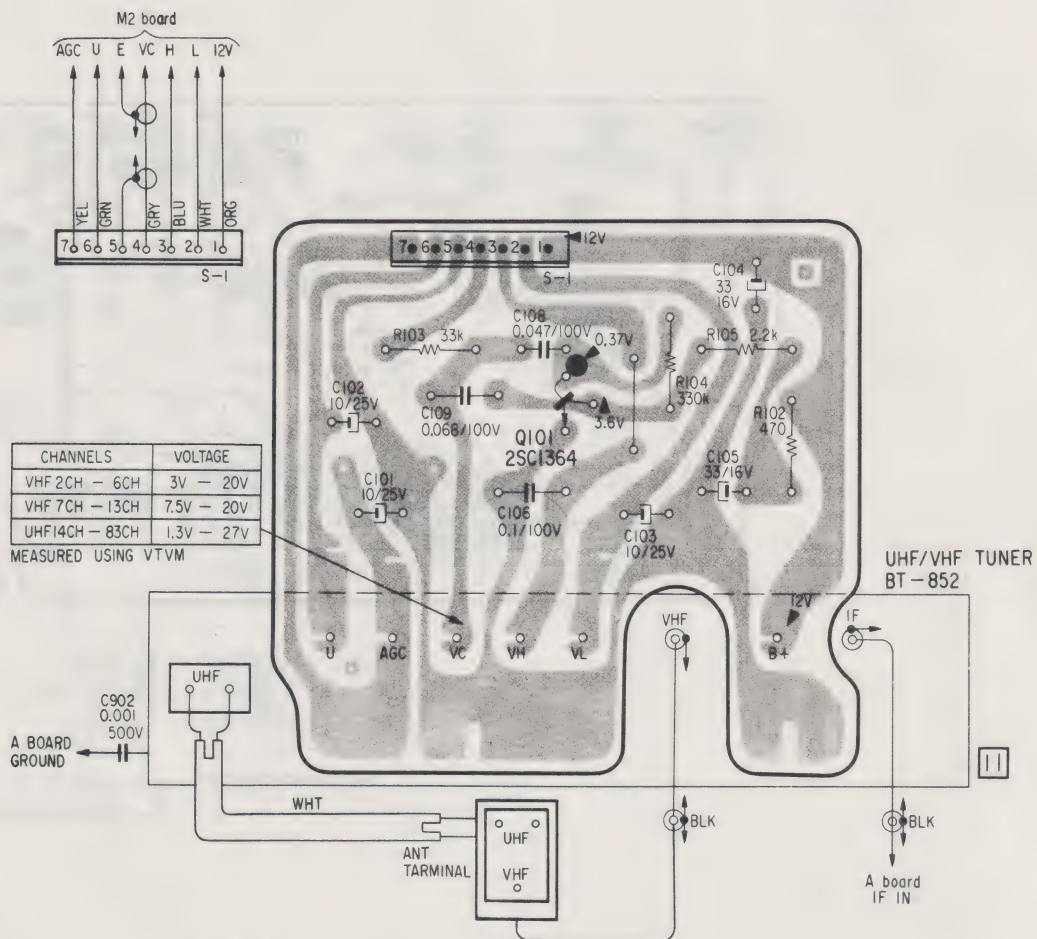
SET 1879 FOLDER 2

19

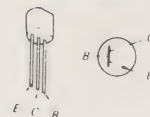


[TUNER, ACTIVE FILTER]

— S Board —



2SC1364



Note:

- : parts extracted from the component side.
- : parts extracted from the conductor side.

Ref. No. Part No. Description

SEMICONDUCTORS

Transistors

Q001	8-729-213-01	2SC2230A
⇒Q002	8-729-663-47	2SC1364
Q003	8-729-309-00	2SC1890A
Q004-005	8-729-663-47	2SC1364
Q031, 032	8-729-663-47	2SC1364
⇒Q033	8-729-612-77	2SA1027R
Q034	8-729-663-47	2SC1364
⇒Q035	8-729-612-77	2SA1027R
Q036	8-729-139-04	2N3904
⇒Q038-040	8-729-612-77	2SA1027R
Q041-044	8-729-663-47	2SC1364
⇒Q045	8-729-612-77	2SA1027R
Q101	8-729-663-47	2SC1364
Q141	8-729-663-47	2SC1364
Q151	8-722-384-00	2SK23A-840
⇒Q152	8-729-663-47	2SC1364
⇒Q153	8-729-612-77	2SA1027R

ICs

IC001	8-757-630-00	CX763
IC031	8-759-157-40	μPC574J
IC032	8-757-600-00	CX760
IC033	8-758-040-00	CX804
IC034	8-757-610-00	CX761
IC2201	8-759-619-03	M51903L

- ⇒ : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Ref. No. Part No. Description

Diodes

D001	8-719-301-34	GM3
D002	8-719-900-93	V09C
D003	8-719-932-12	EQB01-12R
D030	8-719-815-55	1S1555
D033-038	8-719-815-55	1S1555
D039	8-719-191-26	RD9.1E-B3Z
D141, 142	8-719-815-55	1S1555
D151	8-713-000-00	1T30
D2201-2205	8-719-101-00	SR108D-M
D2206	8-719-812-41	TLR124
D2207	8-719-812-42	TLY124
D2208	8-719-812-43	TLG124

SONY MODEL KV-1543R
(Ch. SCC-207B-A)

FOLDER 2

N/S/M1/M2/MM BOARDS

PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.

Have your local distributor check Sams COUNTER FACTS* for the most up-to-date replacement.

WIRING DATA

High Voltage Lead	Use BELDEN No. 9867 (30 KV)
Shielded Hook-up Wire	Use BELDEN No. 8401 or 8421 (Single-Conductor) 8208 (Two-Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8528 (Solid) Available in 13 Colors 8522 (Stranded) Available in 13 Colors
300-Ohm Tuner Input Lead	Use BELDEN No. 8225
75-Ohm Tuner Input Lead	Use BELDEN No. 8241
300-Ohm Antenna Lead-In	Use BELDEN No. 8275 (Foam Core) or 8285 (Foam Jacketed)
Antenna Rotor Cable	Use BELDEN No. 8464 (Flat) or 8484 (Round) 4-Conductor 8485 (Round) 5-Conductor 8488 (Round) 8-Conductor

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D202	RD13E-B2Z	8-719-113-25		ZM13B		SK3788/5022A	ECG5022A	TM5022	WEP1424/5022	103-96
D203	1S1555	8-719-815-55	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D204	1S1555	8-719-815-55	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D205	1S1555	8-719-815-55	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D301	SI801-02 10E2	8-719-901-02 8-719-200-02	GE-504A GE-504A	PTC201 PTC201	REN 116 REN 116	SK3311 SK3311	ECG116 ECG116	TM116 TM116	WEP156 WEP156	212-76-02 212-76-02
D501	RD12E-B1Z	8-719-112-24		ZM12B		SK3787/5021A	ECG5021A	TM5021	WEP1423/5021	103-279-21
D502	RD5.6E-Z7S	8-719-156-23		ZM5.6B		SK3777/5011A	ECG5011A	TM5011	WEP1412/5011	103-Z9007
D503	1S1555	8-719-815-55	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D504	V19E	8-719-901-93	GE-510	PTC205	REN 125	SK3081/125	ECG125	TM125	WEP170/125	212-Z9000
D505	SI801-02	8-719-901-02	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D506	HF1A	8-719-320-11	GE-511	PTC216	REN 506	SK3843/506	ECG506	TM506	WEP172/506	103-287
	HF1Z		GE-511	PTC216	REN 506	SK3843/506	ECG506	TM506	WEP172/506	103-287
D507	GH3F	8-719-305-15	GE-530		REN 525	SK3925/525	ECG525	TM525	WEP177/525	212-Z9010
	GH1F		GE-530		REN 525	SK3925/525	ECG525	TM525	WEP177/525	212-Z9010
D508	1S1555	8-719-815-55	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D509	V30N	8-719-903-09	GE-511	PTC216	REN 506	SK3843/506	ECG506	TM506	WEP172/506	103-287
D510	HF1A	8-719-320-11	GE-511	PTC216	REN 506	SK3843/506	ECG506	TM506	WEP172/506	103-287
D511	V19C	8-719-901-92	GE-504A	PTC202	REN 116	SK3313/116	ECG116	TM116	WEP158/116	212-76-02
D513	1S1555	8-719-815-55	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D514	SI801-02 10E2	8-719-901-02 8-719-200-02	GE-504A GE-504A	PTC201 PTC201	REN 116 REN 116	SK3311 SK3311	ECG116 ECG116	TM116 TM116	WEP156 WEP156	212-76-02 212-76-02
D516	1S1555	8-719-815-55	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D518	SI801-02	8-719-901-02	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D519	SI801-02	8-719-901-02	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D521	EQA01-24RR	8-719-906-24	GEZD-24	ZB24B	REN 5081	SK3151/5081A	ECG5081A	TM5081A/**	WEP164/5081A	103-Z9000
D601	U05ES	8-719-912-54	GE-512	PTC204	REN 156	SK3051/156	ECG156	TM156	WEP4008/156	212-Z9000
IC201	CX555	8-759-605-55								
	M5185P									
IC202	CX095C	8-759-600-95				SK3833/1308	ECG1308	TM1308		905-106
	M5146P					SK3833/1308	ECG1308	TM1308		905-106
IC301	CX556	8-759-105-56								
	UPC1352C									
IC501	CX557	8-759-105-57								
	UPC1367C									
# IC601	462-11	1-231-462-11	GE-210	PTC121*	REN 123A*	SK3124/289	ECG123AP*	TM123AP/**	WEP634	121-Z9000A*
Q202	2SC1364	8-729-663-47	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
	2SC945									
Q203	2SC1761	8-763-113-00	GE-276	PTC180	REN 306	SK3251/306	ECG306	TM306	WEP771/306	121-Z9069
Q204	2SC1890AE	8-729-309-06	GE-220*	PTC170	REN 194*	SK3244	ECG194*	TM194*	WEP750*	121-881*
Q205	2SC1670(5)		GE-222*	PTC170*	REN 287*	SK3433/287*	ECG287*	TM287*	WEP68/287*	121-Z9045*
	2SC1962	8-765-170-01(5)	GE-222	PTC170*	REN 287	SK3865	ECG287	TM287	WEP68/287	121-Z9045*
Q206	2SA840(5)		GE-223*	PTC171*	REN 288*	SK3434/288*	ECG288*	TM288*	WEP968/288*	121-Z9046*
	2SA835	8-762-020-00(5)	GE-223*	PTC171*	REN 288	SK3434/288	ECG288	TM288	WEP968/288	121-Z9046*
Q301	2SC1364	8-729-663-47	GE-210	PTC121*	REN 123A*	SK3124/289	ECG123AP*	TM123AP/**	WEP634	121-Z9000A*
	2SC945		GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q401	2SC1364	8-729-663-47	GE-210	PTC121*	REN 123A*	SK3124/289	ECG123AP*	TM123AP/**	WEP634	121-Z9000A*
	2SC945		GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q501	2SC2230AY	8-729-213-01	GE-222*	PTC170*	REN 287*	SK3433/287*	ECG287*	TM287*	WEP68/287*	121-Z9045*
Q502	2SC2141(5)				REN 291	SK3440/291	ECG291	TM291	WEP780/291	121-Z9047
	2SC2141-10	8-765-500-00(5)			REN 291	SK3440/291	ECG291	TM291	WEP780/291	121-Z9047
Q503	2SA951(5)				REN 292	SK3441/292	ECG292	TM292	WEP781/292	121-Z9048
	2SA951-10	8-765-510-00(5)			REN 292	SK3441/292	ECG292	TM292	WEP781/292	121-Z9048
Q504	2SC2230AY	8-729-213-01	GE-222*	PTC170*	REN 287*	SK3433/287*	ECG287*	TM287*	WEP68/287*	121-Z9045*
Q505	2SD571	8-729-157-11	GE-279	PTC144*	REN 315	SK3124/289	ECG315	TM315	WEP922/315	921-1010
Q601	2SA893AE	8-729-309-36	GE-221*	PTC171*	REN 288*	SK3715*	ECG288*	TM288*	WEP968/288*	121-Z9046*
Q701	2SC2278	8-729-322-78	GE-27		REN 171	SK3201/171	ECG171	TM171	WEP702/171	121-822
	2SC2606		GE-27		REN 171	SK3201/171	ECG171	TM171	WEP702/171	121-822
Q702	2SC2278	8-729-322-78	GE-27		REN 171	SK3201/171	ECG171	TM171	WEP702/171	121-822
	2SC2606		GE-27		REN 171	SK3201/171	ECG171	TM171	WEP702/171	121-822
Q703	2SC2278	8-729-322-78	GE-27		REN 171	SK3201/171	ECG171	TM171	WEP702/171	121-822
	2SC2606		GE-27		REN 171	SK3201/171	ECG171	TM171	WEP702/171	121-822
Q901	2SD918	8-729-191-81					ECG380	TM380		
Q902	2SC1875	8-729-118-76	GE-38	PTC129A	REN 165	SK3710/238	ECG165	TM165	WEP7408/165	121-1029

For SAFETY use only equivalent replacement part.

* Lead configuration may vary from original.

** Also available as exact type replacement.

(5) Half of complementary pair.

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.

Have your local distributor check Sams COUNTER FACTS* for the most up-to-date replacement.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C212	2.2 50V	1-123-353-00	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C213	.47 50V	1-123-351-00	PC1-50	VTT47A63	QV1-3	EV-1610
C214	3.3 50V	1-123-354-00	NLW4-50	VTT3R3A50	QV1-25	EV-1618.1
C221	10 16V	1-123-316-00	PC10-25	VTT10B25	QV1-41	EV-1222
C228	1 50V	1-123-352-00	PC1-50	VTT1A50	QV1-11	EV-1615
C232	.47 50V	1-123-351-00	PC1-50	VTT47A63	QV1-3	EV-1610
C233	470 16V	1-123-323-00	PC500-16	VTT470K16	QV1-151	EV-1251
C234	47 16V	1-123-319-00	PC50-16	VTT47D16	QV1-73	EV-1226
C235	4.7 25V	1-123-328-00	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C238	2.2 160V	1-123-026-00	WBR2-450*	TC595A*		TVA-1500.1*
C239	10 16V	1-123-316-00	PC10-25	VTT10B25	QV1-41	EV-1222
C243	2.2 100V	1-123-250-00	PC2-100	TT100X2*		TVA-1400.1
C246	10 16V	1-123-316-00	PC10-25	VTT10B25	QV1-41	EV-1222
C304	10 16V	1-123-316-00	PC10-25	VTT10B25	QV1-41	EV-1222
C305	10 16V	1-123-316-00	PC10-25	VTT10B25	QV1-41	EV-1222
C310	.47 50V	1-123-351-00	PC1-50	VTT47A63	QV1-3	EV-1610
C312	.1 35V			TDC104M050EL	QDT1-2	SD50-R109
	.47 50V	1-123-351-00	PC1-50	VTT47A63	QV1-3	EV-1610
C314	10 16V	1-123-316-00	PC10-25	VTT10B25	QV1-41	EV-1222
C315	3.3 25V	1-121-392-00	NLW4-50	VTT3R3A50	QV1-25	EV-1618.1
C318	.22 50V	1-123-447-00		TDC224M050EL	QDT1-10	SD50-R229
C319	4.7 25V	1-123-328-00	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C320	.22 50V	1-123-447-00		TDC224M050EL	QDT1-10	SD50-R229
C326	220 16V	1-123-321-00	PC250-25	VTT220H16	QV1-117	EV-1240
C329	10 16V	1-123-316-00	PC10-25	VTT10B25	QV1-41	EV-1222
C401	10 16V	1-123-316-00	PC10-25	VTT10B25	QV1-41	EV-1222
C501	1 50V	1-123-352-00	PC1-50	VTT1A50	QV1-11	EV-1615
C502	10 16V	1-123-316-00	PC10-25	VTT10B25	QV1-41	EV-1222
C507	2.2 50V	1-123-353-00	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C511	10 16V	1-123-316-00	PC10-25	VTT10B25	QV1-41	EV-1222
C512	220 16V	1-123-321-00	PC250-25	VTT220H16	QV1-117	EV-1240
C513	3.3 50V	1-123-354-00	NLW4-50	VTT3R3A50	QV1-25	EV-1618.1
C514	100 16V	1-123-320-00	PC100-16	VTT100E16	QV1-95	EV-1231
C516	3.3 16V	1-131-197-00		TDC335M035FL	QDT1-43	SD35-3R39
C517	2.2 20V	1-131-361-00		TDC225M035FL	QDT1-37	SD35-2R29
C520	10 16V	1-131-199-00		TDC106M025FL	QDT1-64	SD25-109
C523	3.3 160V	1-123-268-00	WBR4-250*	TC50XB*		TVA-1500.2*
C524	47 16V	1-123-319-00	PC50-16	VTT47D16	QV1-73	EV-1226
C526	220 35V	1-123-346-00	WBR250-50*	VTT220K35	QV1-121	EV-1440
C528	33 50V	1-123-331-00	PC30-50	VTT33G50	QV1-69	EV-1625.1
C529	330 25V	1-123-335-00	WBR300-35*	VTT330L25	QV1-135	EV-1345
C530	.47 50V	1-123-351-00	PC1-50	VTT47A63	QV1-3	EV-1610
C535	10 160V	1-121-999-00	WBR12-250*	TC52A*		TVA-1504*
C537	22 50V		PC30-50	VTT22G63	QV1-59	EV-1524
	3.3 50V	1-123-354-00	NLW4-50	VTT3R3A50	QV1-25	EV-1618.1
C538	100 16V	1-123-320-00	PC100-16	VTT100E16	QV1-95	EV-1231
C539	33 160V	1-121-757-00	WBR30-250*	TC57B*		TVA-1510*
C541	330 25V	1-123-335-00	WBR300-35*	VTT330L25	QV1-135	EV-1345
C542	100 25V	1-123-333-00	PC100-25	VTT100G25	QV1-97	EV-1331
C544	.47 50V	1-123-351-00	PC1-50	VTT47A63	QV1-3	EV-1610
C549	4.7 160V	1-121-246-00	WBR5-450*	TC50XB*		TVA-1544*
C550	47 16V	1-123-319-00	PC50-16	VTT47D16	QV1-73	EV-1226
C561	1 250V	1-123-003-00	WBR1-450*	TC56A*		TVA-1540*
C596	.47 50V	1-123-351-00	PC1-50	VTT47A63	QV1-3	EV-1610
C603	4.7 50V	1-121-396-00	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C604	560 200V	1-125-186-00				
C606	10 160V	1-121-999-00	WBR12-250*	TC52A*		TVA-1504*
C608	4.7 160V	1-127-246-00	WBR5-450*	TC50XB*		TVA-1544*
C701	10 50V	1-121-738-00	PC10-50	VTT10D63	QV1-45	EV-1622

For SAFETY use only equivalent replacement part.

* Axial replacement for radial device.

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C201	68 50V		NP068	CN0468		10TCC-Q68
C205	.0022 50V			GP222	QCT2-46	10TS-D22
C206	.0022 50V			GP222	QCT2-46	10TS-D22
C207	.0047 50V		GP4700	GP247		5GA-D47
C208	.0022 50V			GP222	QCT2-46	10TS-D22
C209	.0022 50V			GP222	QCT2-46	10TS-D22
C211	.1 100V		DPMS2P1	EWFTA010	QF1-215	1PB-P10
C215	3 NP0 50V		NP03P3	CN0533		10TCC-V33
C216	3 NP0 50V		NP03P3	CN0533		10TCC-V33
C217	33 50V		NP033	CN0433	QCC2-22	10TCC-Q33
C218	18 NP0 50V			CN0418		10TCC-Q18
C219	.0022 50V			GP222	QCT2-46	10TS-D22
C220	.0022 50V			GP222	QCT2-46	10TS-D22
C222	.0022 50V			GP222	QCT2-46	10TS-D22
C225	.047 50V		DPMS2S47	EWFTA147	QF1-171	1PB-S47
C226	15 50V		NP015	CN0415		10TCC-Q15

SONY MODEL KV-1543R
(Ch. SCC-207B-A)

FOLDER 2

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.

Have your local distributor check Sams COUNTER FACTS* for the most up-to-date replacement.

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C229	.01 50V			MAG5011		
C230	470 50V		GP470	GP347		
C231	.015 100V 10%		WMF1S15	EWFA1115	QCT2-35	10TS-T47
C236	330 50V 5%		GP330	GP333	QF1-105	1PB-S15
C237	220 500V 10%				QCT2-33	10TS-T33
C240	82 NPO 50V 5%		NP082	CN0482		10TCC-T22
C241	33 NPO 50V 5%		NP033	CN0433	QCC2-22	10TCC-Q82
C242	68 NPO 50V 5%		NP068	CN0468		10TCC-Q33
C244	.0022 50V			GP222	QCT2-46	10TCC-Q68
C245	10 50V		NP010	CN0410	10TS-D22	10TS-D22
C247	.0022 100V 10%		DPMS6D22	EWFA222	QCC2-15	10TCC-Q10
C302	100 50V		NP0100	CN0310		6PS-U22
C303	120 50V			CN0312		10TCC-T10
C308	.01 50V			MAG5011		10TCC-T12
C309	330 50V 5%		GP330	GP333	QCT2-33	10TS-T33
C311	.0027 100V 10%		DPMS6U27	PVC6227		6PS-U27
C316	33 50V		NP033	CN0433	QCC2-22	10TCC-Q33
C317	390 50V 5%		GP390	GP339	QCT2-34	10TS-T39
C321	68 50V		NP068	CN0468		10TCC-Q68
C323	10 50V		NP010	CN0410	QCC2-15	10TCC-Q10
C324	22 50V		NP022	CN0422		10TCC-Q22
C327	82 50V		NP082	CN0482		10TCC-Q82
C328	100 50V		NP0100	CN0310		10TCC-T10
C503	.0015 100V 10%		DPMS6D15	EWFA215		6PS-D15
C504	.0082 100V 10%		WMF1D82	EWFA282	QF1-215	1PB-D82
C505	.1 100V 10%		DPMS2P1	EWFA010		1PB-P10
C506	.039 100V 10%		DPMS6S39	PVC6139		6PS-S39
C508	.0047 100V 10%		WMF1D47	EWFA247	QF1-57	1PB-D47
C509	.01 50V 10%		WMF1S1	EWFA110	QF1-91	1PB-S10
C510	330 50V		GP330	GP333	QCT2-33	10TS-T33
C515	.027 100V 10%		DPMS6S27	PVC6127		6PS-S27
C519	.1 100V 10%		DPMS2P1	EWFA210		2PB-P10
C521	220 500V 10%					10TCC-T22
C522	.001 500V			GP210	QCT2-41	10TS-D10
C525	.027 200V 10%		DPMS6S27	PVC6127		6PS-S27
C527	.033 200V 10%		DPMS6S33	EWFA133		6PS-S33
C531	.01 100V 10%		WMF1S1	EWFA110	QF1-91	1PB-S10
C532	330 500V 10%		GP330	GP333	QCT2-33	10TS-T33
# C533	.0088 1.2KV 3%	1-130-207-00				
# C534	.15 200V 10%	1-108-961-00	DPMS2P15	EWFA215		2PB-P15
C536	.0047 1.6KV	1-102-223-00		3HV247		30GA-D47
C540	.001 500V			GP210	QCT2-41	10TS-D10
C543	.36 200V 5%	1-130-139-00				
C545	.033 100V 10%		DPMS6S33	EWFA133		6PS-S33
C546	.022 100V 10%		DPMS2S22	EWFA122	QF1-127	1PB-S22
# C547	180 2KV	1-102-154-00				
C548	.0047 500V		GP4700	GP247		5GA-D47
	.047 500V		DPMS6S47	EWFA147	QF1-177	6PS-S47
C551	330 500V 10%		GP330	GP333	QCT2-33	10TS-T33
C553	.033 100V 10%		DPMS6S33	EWFA133		6PS-S33
C555	.001 500V			GP210	QCT2-41	10TS-D10
C556	220 500V 10%					10TCC-T22
C559	820 500V 10%		GP820	GP382		10TS-T82
C564	.033 100V 10%		DPMS6S33	EWFA133		6PS-S33
C597	330 500V 10%			GP333	QCT2-33	10TS-T33
C598	.0047 100V 10%		WMF1D47	EWFA247	QF1-57	1PB-D47
C599	.22 100V 10%		DPMS2P22	EWFA022	QF1-253	1PB-P22
# C601	.22 125VAC	1-108-745-00	ST6P22			
C602	.0047 125VAC	1-102-189-00				125L-D47
		1-102-446-00				125L-D47
C607	100 500V 5%		NP0100	CN0310		10TCC-T10
C702	.047 630V	1-129-737-00	DPMS6S47	EWFA147	QF1-177	6PS-S47
C703	330 2KV	1-102-155-00				
C704	82 50V		NP082	CN0482		10TCC-Q82
# C901	330 2KV	1-102-155-00				
C902	.001 500V			GP210	QCT2-41	10TS-D10
CV301	30 Trimmer	1-141-212-00				

For SAFETY use only equivalent replacement part.

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS[®] for the most up-to-date replacement.

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA		
			MFGR. PART No.	MALLORY PART No.	TRW PART No.
RV001	Freq Adj.	220K	1-224-551-00	RVA0911H254	U260R254B
RV201	RF AGC (VHF)	4700	1-226-135-00	MTC53L1	X201R502B
RV202	RF AGC (UHF)	4700	1-226-135-00	MTC53L1	X201R502B
RV301A	Sharpness	10K Detent @ 50%	1-226-078-00		
RV302	Picture	10K Detent @ 50%	1-226-078-00		
RV303	Brightness	500 Detent @ 50%	1-226-408-00		
RV304	Sub Brightness	4700	1-224-644-XX	RVA0911H502	U260R502B
RV305	Color	10K	1-226-075-00		
RV306	Hue	10K	1-226-075-00		
RV307	ACC	470K	1-224-552-00	RVA0911H504	U260R504B
RV308	Sub Contrast	4700	1-224-644-XX	RVA0911H502	U260R502B
RV501	Horiz Freq	1000	1-224-642-XX	RVA0911H102	U260R102B
RV502A	Vert Hold	5000	1-226-077-00		
RV503	Vert Size	22K	1-226-217-00	MTC253L1	X201R253B
RV504	Pin Amp	10K	1-224-645-XX	RVA0911H103	U260R103B
RV701	Blue Background	3300	1-226-209-00		
RV702	Blue Drive	330	1-224-640-XX	MTC32L1(3)	X201R351B(3)
RV703	Green Background	3300	1-226-209-00		
RV704	Green Drive	330	1-224-640-XX	MTC32L1(3)	X201R351B(3)
RV705	Red Background	3300	1-226-209-00		
RV706	G2 Adj. (Screen)	2.2Meg	1-226-063-00	MTC26L1(3)	X201R205B(3)
RV707	Focus	2.2Meg	1-226-114-00	MTC26L1(3)	X201R205B(3)
RV901	Horiz Static	200Meg "Max"	1-226-271-00		

(3) For horizontal mounting, bend the two outside terminals to fit P.C. board. Use jumper to connect center terminal to P.C. board.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		MFGR. PART No.	WORKMAN PART No.			MFGR. PART No.	WORKMAN PART No.
CD901	LDR			# R561	6800 1% 1/4W Metal Oxide	1-214-152-00	
R001	100 5% 1W Flame-proof Metal Oxide	1-213-131-00	22-3072	R562	22 5% 1/4W Flame-proof Carbon	1-211-506-00	22-1056
R212	33 5% 1/2W Flame-proof Carbon	1-211-602-00	22-2060	R566	68 5% 1W Flame-proof Metal Oxide	1-213-129-00	22-3068
R232	47 5% 1/8W Flame-proof Carbon	1-211-933-00	22-1064	R567	1.2 5% 1/8W Flame-proof Carbon	1-246-979-00	
R237	22 5% 1/8W Flame-proof Carbon	1-211-417-00	22-1056	R568	22 5% 1/8W Flame-proof Carbon	1-211-417-00	22-1056
R243	27 5% 1W Flameproof Metal Oxide	1-213-124-00	22-3058	R570	2700 5% 2W Flame-proof Metal Oxide	1-206-674-00	22-4106
R244	4.7 5% 1W Flame-proof Metal Oxide	1-212-368-00		R571	120 5% 1W Flame-proof Metal Oxide	1-213-132-00	22-3074
R246	33 5% 1/2W Flame-proof Carbon	1-211-602-00	22-2060	R577	47 5% 1W Flameproof Metal Oxide	1-213-127-00	22-3064
# R510	33K 5% 1/4W Carbon	1-246-509-00	22-1132	R595	47 5% 1/8W Flame-proof Carbon	1-211-933-00	22-1064
R518	150 5% 1/8W Flame-proof Carbon	1-246-991-00	22-1076	# R597	120K 5% 1/4W Carbon	(1)	22-1146
R519	47 5% 1/8W Flame-proof Carbon	1-211-933-00	22-1064	# R598	15K 5% 2W Flame-proof Metal Oxide	1-206-692-00	22-4124
R520	12K 5% 2W Flame-proof Metal Oxide	1-206-690-00	22-4122	# R602	15K 5% 1W Flame-proof Metal Oxide	1-213-157-00	22-3124
R521	1.2 5% 1W Flame-proof Metal Oxide	1-212-361-00		# R603	4700 5% 1/2W Carbon	1-244-889-00	22-2112
R525	1.8 5% 1W Flame-proof Metal Oxide	1-212-363-00		R604	390 5% 1/8W Flame-proof Carbon	1-247-037-00	22-1086
R528	1500 5% 2W Flame-proof Metal Oxide	1-206-668-00	22-4100	# R605	39K 5% 1/2W Carbon	1-244-911-00	22-2134
R530	220 5% 1W Flame-proof Metal Oxide	1-213-135-00	22-3080	R607	82 5% 1/8W Flame-proof Carbon	1-211-921-00	22-1070
R531	390 5% 1/4W Flame-proof Carbon	1-211-536-00	22-1086	R608	4.7 5% 3W Flame-proof Metal Oxide	1-217-257-00	
# R532	2400 1% 1/4W Metal Oxide	1-214-141-00		R609	22K 5% 1W Flame-proof Metal Oxide	1-213-159-00	22-3128
R533	3.3 5% 1W Flame-proof Metal Oxide	1-212-366-00		R703	15K 5% 2W Flame-proof Metal Oxide	1-206-692-00	22-4126
R534	1800 5% 1W Flame-proof Metal Oxide	1-213-146-00	22-3102	R706	15K 5% 2W Flame-proof Metal Oxide	1-206-692-00	22-4126
R548	1.2 5% 1W Flame-proof Carbon	1-212-361-00		R709	15K 5% 2W Flame-proof Metal Oxide	1-206-692-00	22-4126
# R552	470 5% 1/4W Carbon	1-246-465-00	22-1088	R712	.15 10% 1/2W Flame-proof WW	1-207-453-00	
R555	1.2 5% 1/8W Flame-proof Carbon	1-246-979-00		R901	200 10% 20W Flame-proof WW	1-205-593-00	24-6070
R558	10K 5% 1/4W Flame-proof Carbon	1-211-567-00	22-1120	# R902	6.8 10% 30W Flame-proof WW	1-205-590-00	
R560	8200 5% 1/8W Flame-proof Carbon	1-211-473-00	22-1118	# THP601	12 Cold PTC	1-800-567-00	FR605
				# VDR601	Varistor	1-800-641-00	

For SAFETY use only equivalent replacement part.
(1) Value may vary, replace with original value.

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(Ch. SCC-207B-A)

FOLDER 2

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS* for the most up-to-date replacement.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
DL301	Delay Line	1-415-164-00	1-415-164-11		
L201	RF Choke (12uH)	1-407-158-XX			
L202	RF Choke	1-425-613-00			
L203	RF Choke (8.2uH)	1-407-189-XX			
L205	Peaking (47uH)	1-407-165-XX		74F475AI	
L209	Peaking (100uH)	1-407-169-XX			
L302	RF Choke (27uH)	1-407-162-XX		74F275AI	
L303	Peaking (5.6mH)	1-407-203-XX			
L304	Peaking (56uH)	1-407-166-XX			
L305	RF Choke (27uH)	1-407-162-XX		74F275AI	
L502	Peaking (10mH)	1-459-104-00	1-459-104-11		
L505	Peaking (6.8mH)	1-407-502-00			
L506	Peaking (820uH)	1-407-716-00			
L507	Peaking (220uH)	1-407-709-00			
L508	Peaking (33uH)	1-407-163-XX			
L509	Peaking (33uH)	1-407-163-XX			
L510	Peaking (82uH)	1-408-226-00			
L511	RF Choke (5.6uH)	1-407-203-XX			
L512	RF Choke (3.3uH)	1-407-184-XX		70F336AI	
L602	RF Choke (.7uH)	1-407-365-00		4602	
L701	Peaking (82uH)	1-407-168-XX			
L702	Peaking (82uH)	1-407-168-XX			
L703	Peaking (82uH)	1-407-168-XX			
L704	Peaking (180uH)	1-407-172-XX			
L905	RF Choke (.74uH)	1-407-365-00		4602	
T201	39.75MHz Trap	1-409-319-00			
T202	47.25MHz Trap	1-409-318-00			
T203	41.25MHz Trap	1-404-181-00	404-181-11		
T204	Video IF	1-404-182-00	404-182-11		
T205	AFT	1-404-181-00	404-181-11		
T206	Sound IF	1-403-367-00			
T207	Sound IF	1-403-871-00			
T208	Video IF	1-404-179-00	1-404-179-11		
T301	Chroma Bandpass	1-425-995-00			
T601	Line Filter	1-421-357-00	1-421-357-11		

For SAFETY use only equivalent replacement part.

COILS & TRANSFORMERS (Sweep Circuits)

ITEM No.	FUNCTION	REPLACEMENT DATA				
		MFR. PART No.	OTHER IDENTIFICATION	MILLER PART No.	THORDARSON PART No.	TRIAD PART No.
L503	Horiz Width	1-459-262-00	262-11			
L504	Horiz Linearity	1-459-236-00	1-459-236-11			
L906	Yoke Horiz 1.8mH 90° Vert 54mH	1-451-137-00	451-137-61			
T501	Horiz Drive	1-437-078-00	437-078			
T502	Horiz Pincushion	1-421-351-00	1-421-351-11			
T503	Horiz Output	1-439-234-00	1-439-234-11			

For SAFETY use only equivalent replacement part.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T209	3872	8	1-427-442-00 427-442-21(1) 1-427-394-00(2)			# For SAFETY use only equivalent replacement part. (1) Number on unit. (2) Canadian model.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP901	4" PM, 8 Ohms	1-502-600-00 1-502-600-11(1)	4A0528	(1) Number on unit.

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS* for the most up-to-date replacement.

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
# F601	4A @ 125V Pigtail	1-532-271-XX		MDV4		315004		
# F603	Slow-blow 1A @ 125V Slow-blow	1-532-536-00	1-533-146-00					

For SAFETY use only equivalent replacement part.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF201	Filter	1-527-260-00	Ceramic
CF202	Filter	1-409-332-00	Ceramic, 4.5MHz
# CR001	Component Combination		Antenna Isolation
# CR002	Component Combination		Antenna Isolation
# CR003	Component Combination		Antenna Isolation
J901A	Jack	1-507-372-00	Earphone
J901B	Jack	1-507-372-00	Earphone
# L901	Degaussing Coil	1-425-923-42	
# L902	Degaussing Coil	1-425-923-42	
NL501	Neon Lamp	1-519-108-XX	
NL601	Neon Lamp	1-519-108-XX	
NL901	Neon Lamp	1-519-154-00	Lumisponder
# PL1	AC Cord	1-551-603-00	U.S. Model
	AC Cord	1-551-509-00	Canadian Model
#	AC Cord Holder	4-329-222-00	U.S. Model
	AC Cord Holder	4-329-202-00	Canadian Model
S301	Switch	1-552-340-00	Auto
S401	Switch	1-552-340-00	Lumisponder
SG501	Spark Gap	1-519-063-XX	
SG701	Spark Gap	1-519-063-XX	
SG702	Spark Gap	1-519-063-XX	
SG703	Spark Gap	1-519-063-XX	
SG704	Spark Gap	1-519-063-XX	
SG705	Spark Gap	1-519-063-XX	
SG706	Spark Gap	1-519-063-XX	
# V901	Picture Tube	8-739-601-05	400EDB22
X301	Crystal	1-527-396-00	3.58MHz
#	Antenna Terminal	1-536-592-00	U.S. Model
#	Antenna Terminal	1-536-598-00	Canadian Model
	Antenna UHF	Y-2063-103-0	(AN-15) RUSSELL Loop Replacement LIN-2H
	Antenna VHF	Y-2201-611-0	(AN-16) RUSSELL Assembly Replacement POR-TR,
			RUSSELL Rod Replacement POR-16H
	Connector	1-561-335-00	(EAC-31) Antenna, U.S. Model
	Connector	1-513-379-00	(EAC-25) Antenna, Canadian Model
	Earphone	1-504-034-32	(ME-20B)
	Magnet	1-452-032-00	Disc
	Magnet	1-452-094-00	Rotatable Disc; 15mm
	Magnet	1-452-133-00	BMC
#	Neck Assembly	1-452-112-31	
	P.C. Board	A-1295-225-A	A, U.S. Model; VIF, SIF, AGC, Chroma, Y Amp, H Def, V Def, Power Supply
	P.C. Board	A-1295-278-A	A, Canadian Model; VIF, SIF, AGC, Chroma, Y Amp, H Def, V Def, Power Supply
	P.C. Board	A-1330-193-A	C; RGB Out
	P.C. Board	1-587-138-00	L; Lumisponder
	P.C. Board	1-588-343-00	M1; Channel Set
	P.C. Board	A-1306-011-A	M2, U.S. Model; Remote Control, Tuning Control, Memory, Neon Drive, Bandswitch
	P.C. Board	A-1306-022-A	M2, Canadian Model; Remote Control, Tuning Control, Memory, Neon Drive, Bandswitch
	P.C. Board	1-600-567-00	MM; Wide AFT Defeat
	P.C. Board	1-588-341-00	N; Det, INF Amp
	P.C. Board	1-588-342-00	S; Tuner, Active Filter
	Socket	1-526-086-XX	CRT
#	Tuner UHF/VHF	1-463-264-00	BT-852

For SAFETY use only equivalent replacement part.

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Button-Clear	4-333-122-00	Door Assembly	X-4334-203-0
Button-Tuning Up/Down	4-333-123-00	Knob-Lumisponder, Auto	4-333-124-00
Cabinet Assembly	X-4334-601-0	Knob-V Hold, Sharpness, Color, Hue,	4-333-125-00
Channel Select Switch Assembly	1-552-657-21	Bright, Picture	
Cover, Rear	4-334-612-00	Mask Assembly	X-4334-603-0
		Pushbutton-Master	4-333-101-00

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FOLDER 2

Ref. No. Part No. Description

CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μF , elect : electrolytic

C001	1-123-254-00	10	250V elect
C002	1-121-415-00	100	16V elect
C003	1-123-003-00	1	250V elect
C004	1-121-726-00	0.47	50V elect
C005	1-101-003-00	0.0047	
C006	1-121-726-00	0.47	50V elect
C007	1-108-567-00	0.0033	50V mylar
C008	1-102-822-00	390p	
C009	1-121-651-00	10	16V elect
C010	1-108-242-00	0.022	50V mylar
C011A, B	1-121-391-00	1	50V elect
C012	1-101-006-00	0.047	
C031	1-121-396-00	4.7	50V elect
C032	1-102-123-00	0.0033	
C033	1-121-396-00	4.7	50V elect
C034	1-101-880-00	47p	
C035	1-108-389-00	0.1	100V mylar
C036	1-102-971-00	82p	
C037	1-101-006-00	0.047	
C038	1-130-020-00	0.0015	film
C039	1-102-074-00	0.001	
C040	1-130-018-00	0.001	film
C041	1-102-973-00	100p	
C042	1-101-884-00	56p	
C043	1-108-377-00	0.01	100V mylar
C044	1-108-393-00	0.22	100V mylar
C045	1-123-316-00	10	16V elect
C046	1-108-377-00	0.01	100V mylar
C047	1-102-973-00	100p	
C049, 050	1-121-403-00	33	16V elect

Ref. No. Part No. Description

C052	1-108-421-00	0.01	200V mylar
C053	1-101-118-00	0.01	
C054, 056	1-108-421-00	0.01	200V mylar
C057	1-121-396-00	4.7	50V elect
C059	1-102-129-00	0.01	
C060	1-102-824-00	470p	
C101-103	1-121-398-00	10	25V elect
C104	1-121-403-00	33	16V elect
C105	1-123-318-00	33	16V elect
C106	1-108-389-00	0.1	100V mylar
C108	1-108-385-00	0.047	100V mylar
C109	1-108-387-00	0.068	100V mylar
C141	1-123-316-00	10	16V elect
C150	1-102-525-00	68p	
C151	1-121-651-00	10	16V elect
C152	1-102-525-00	68p	
C153, 154	1-108-377-00	0.01	100V mylar
C155, 156	1-121-651-00	10	16V elect
C2201	1-121-450-00	2.2	50V elect
C2202	1-121-391-00	1	50V elect

Ref. No. Part No. Description

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on the last page for their part numbers.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

kΩ : 1000Ω, MΩ : 1000kΩ

R002	1-205-700-00	5.6k	7W	wirewound (nonflammable)
R008	1-202-729-00	6.8M	½W	composition
R018	1-244-911-00	39k	½W	carbon
R027	1-206-680-00	4.7k	2W	metal oxide (nonflammable)
R029	1-244-945-00	1M	½W	composition
R051	1-206-696-00	22k	2W	metal oxide (nonflammable)
R073	1-244-873-00	1k	½W	carbon
R074	1-244-929-00	220k	½W	carbon
R085	1-206-700-00	33k	2W	metal oxide (nonflammable)
R086	1-244-909-00	33k	½W	carbon
R099	1-202-667-51	8.2M	½W	composition

Ref. No. Part No. Description

COILS

All coils are microinductors unless otherwise noted.

L001	1-405-725-00	OSC, 40kHz
L031	1-407-212-XX	33mH
L032	1-409-193-00	Clock, OSC, Clock-1 ADJ
L033	1-407-169-XX	100μH
L034	1-407-184-XX	3.3μH
L035	1-407-169-XX	100μH
L151	1-409-315-00	100mH

MISCELLANEOUS

RY001	 1-515-333-00	Relay (US model)
RY001	 1-515-338-00	Relay (Canadian model)

S901	1-552-658-00	Switch, pushbutton; MASTER
S2201	1-552-656-00	Switch, slide; CHANNEL SET
S2202	1-552-656-00	Switch, slide; AFT
S2203	1-552-659-00	Switch, pushbutton; TUNING UP
S2204	1-552-659-00	Switch, pushbutton; TUNING DOWN
S2205	1-552-659-00	Switch, pushbutton; CHANNEL CLEAR
	1-552-657-21	Switch Ass'y, CHANNEL SELECT

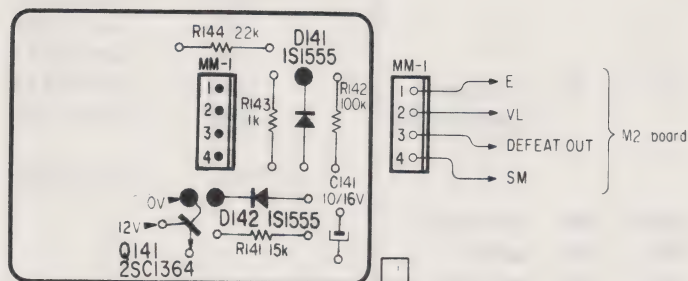
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

SONY MODEL KV-1543R
(Ch. SCC-207B-A)

FOLDER 2

N/S/M1/M2/MM BOARDS

— MM Board —



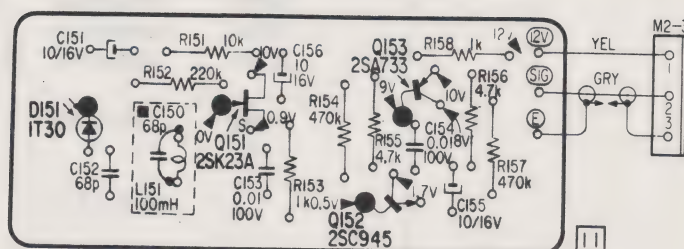
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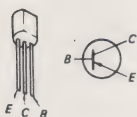
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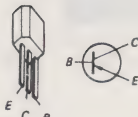
— N Board —



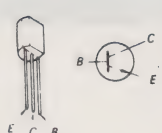
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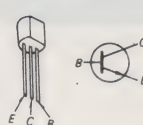
2SA1027R



2SC945



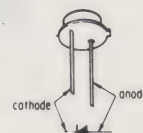
2SC1364



2SK23A-840



IT30



MM BOARD-WIDE AFT DEFEAT N BOARD-DETECTOR, INF AMP

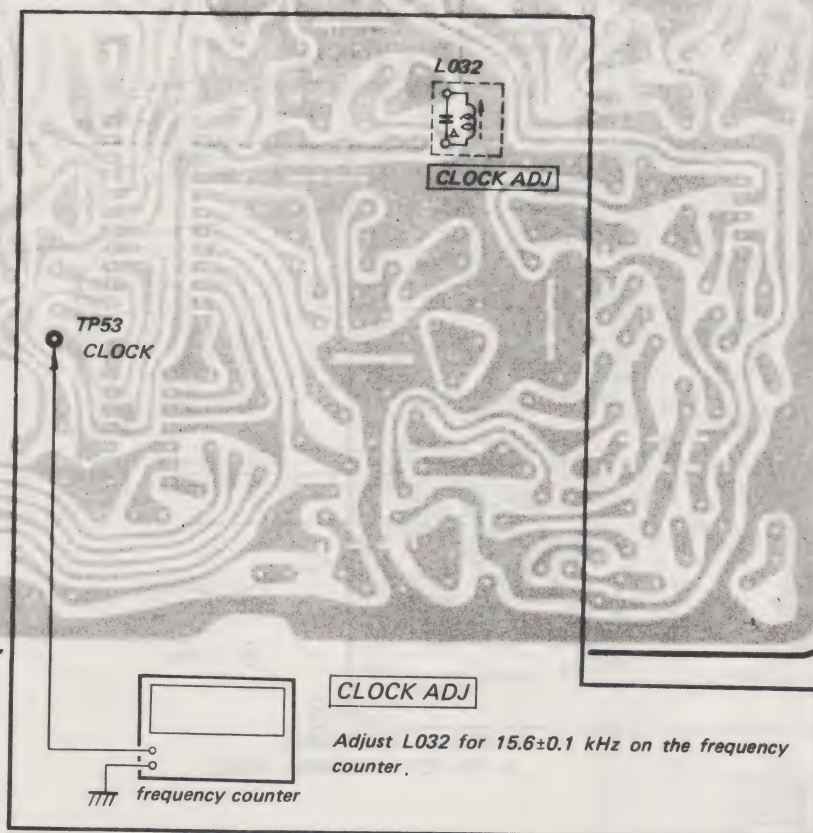
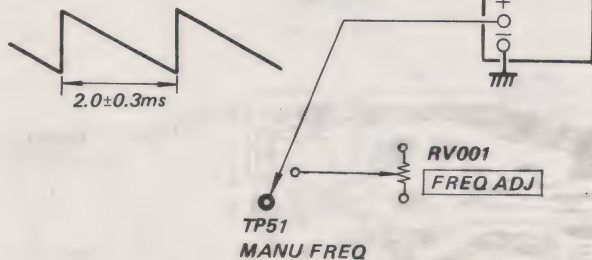
Note:

- ○ — : parts extracted from the component side.
- ● — : parts extracted from the conductor side.

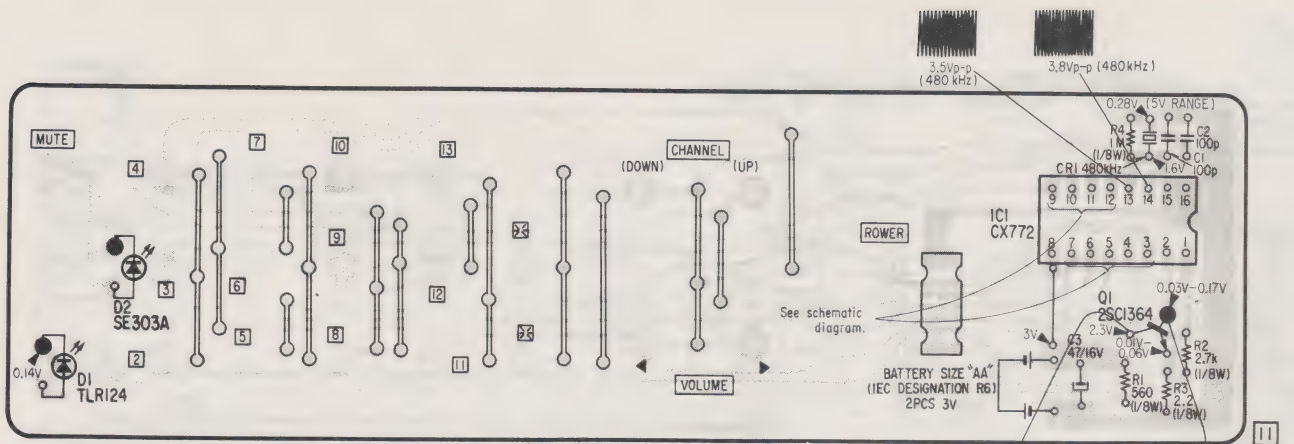
4-2. M2 BOARD ADJUSTMENTS

FREQ ADJ

1. Connect an oscilloscope to the TP51.
2. With the VOLUME ▲ (up) button pressed, adjust RV001 to obtain the wave forme as shown.



M2 BOARD-REMOTE CONTROL, TUNING CONTROL,
MEMORY, NEON DRIVE, BANDSWITCH



A-1470-278-A

ELECTRICAL PARTS LIST

Ref. No. Part No. Description

CIRCUIT BOARD

1-600-152-00 RC Board

SEMICONDUCTORS

Q1 8-729-663-47 Transistor, 2SC1364

IC1 8-759-607-72 IC, CX772

D1 8-719-812-41 Diode, TLR124

D2 8-719-103-03 Diode, SE303A

CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted.
50WV or less are not indicated except for electrolytics.

p : μF , elect : electrolytic

C1,2 1-102-973-00 100p 50V ceramic

C3 1-123-319-00 47 16V elect

RESISTORS

All resistors are in ohms. Common $\frac{1}{4}\text{W}$ carbon resistors are omitted. Refer to the list on the last page for their part numbers.
All variable and adjustable resistors have characteristic curve B, unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000k Ω

R1 1-246-780-00 560 Ω 1/8W carbon

R2 1-246-788-00 2.7k Ω 1/8W carbon

R3 1-246-751-00 2.2 Ω 1/8W carbon

R4 1-247-053-00 1M Ω 1/8W carbon

MISCELLANEOUS

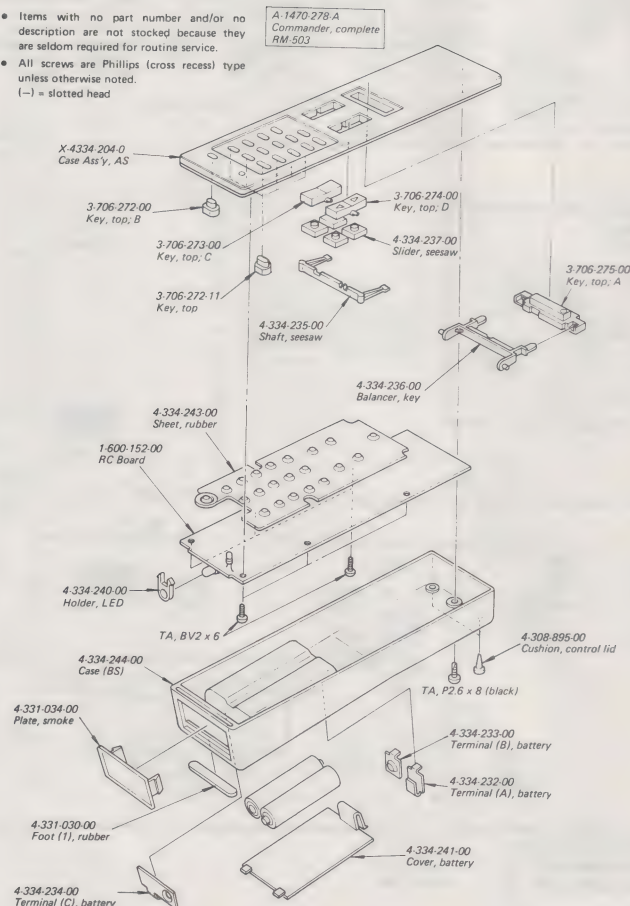
C01 1-527-476-00 Radiator, ceramic; 480kHz

Note:

- : parts extracted from the component side.

EXPLODED VIEW

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (-) = slotted head



RC BOARD-REMOTE COMMANDER

RESISTANCE MEASUREMENTS

MEASUREMENTS BELOW TAKEN WITH METER HAVING .08V MAX BETWEEN PROBE TIPS														
ITEM	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9	PIN 10	PIN 11	PIN 12	PIN 13	PIN 14
V901	FIL	2.2M	INF	INF	2.2M	INF	120K	FIL						
IC201	INF	0	INF	5740	6910	INF	1431	0	5340	38K	9900	INF	INF	9870
	PIN 15 8930	PIN 16 0	PIN 17 3000	PIN 18 3000	PIN 19 2750	PIN 20 443	PIN 21 8940	PIN 22 0	PIN 23 9000	PIN 24 8770	PIN 25 11K	PIN 26 INF	PIN 27 5040	PIN 28 INF
IC202	6220	4990	5000	INF	3240	5120	88K	INF	INF	0	9320	470	INF	470
IC301	443	INF	12K	2340	14K	INF	1860	753	482	2640	6270	INF	5340	0
	PIN 15 97K	PIN 16 INF	PIN 17 INF	PIN 18 INF	PIN 19 INF	PIN 20 14	PIN 21 INF	PIN 22 INF	PIN 23 INF	PIN 24 68K	PIN 25 INF	PIN 26 2340	PIN 27 2350	PIN 28 2340
IC501	7300	13K	18K	0	12K	2650	INF	25K(1)	30K(1)	27K(1)	33K	2800	INF	2000
					PIN 15 68K	PIN 16 0	PIN 17 10K	PIN 18 19K	PIN 19 8500	PIN 20 446	PIN 21 3740	PIN 22 4130	PIN 23 20K	PIN 24 36K
IC601	11K(1)	15K	0	60K	240K									
ITEM	E	B	C		ITEM	E	B	C		ITEM	E	B	C	
Q202	1384	2750	563		Q401	240	40K(7)	2160		Q601	0	20K	INF(2)	
Q203	443	691	475		Q501	150	16K	INF(2)		Q701	380	2650	INF	
Q204	0	1000	50K(1)		Q502	13K	22K(1)	47K(1)		Q702	210	2660	INF	
Q205	92K	50K(1)	11K(1)		Q503	13K	INF(2)	0		Q703	306	2670	INF	
Q206	92K	50K(1)	0		Q504	25K(1)	22K(1)	18K(1)		Q901	205	INF(2)	0	
Q301	2700	1256	443		Q505	68	4300	37K(1)		Q902	0	.24	11K(1)	

- (1) This reading will vary depending upon the condition of the electrolytic in the circuit.
 (2) Reading depends upon polarity of meter connections.
 (7) CD901 covered.

TROUBLESHOOTING CHECK CHART

The following chart lists component failures most likely to produce the indicated symptoms.

PICTURE or SOUND

NO PIC, NO SOUND, NO RASTER: Fuse, D601, Reg Drive, Reg Out, Power Module (IC601), 12V Reg.

NO PIC, NO SOUND, HAS RASTER: Tuner, VIF (IC201).

NO PIC, NO SOUND, HAS SNOW: Tuner, AGC (IC201), D203, D204, D205.

NO PIC, HAS SOUND, NO RASTER: Video Amp, Sharpness, Y-Amp (IC301), CRT.

NO PIC, HAS SOUND, HAS RASTER: Video Amp, Sharpness, Y-Amp (IC301).

HAS PIC, NO SOUND: SIF (IC202), AF Drive/Outs.

OVERLOADED PICTURE: AGC (IC201), D203, D204, D205.

LOW OR EXCESSIVE BRIGHTNESS: Video Amp, Sharpness, Y-Amp (IC301), Lumisponder.

SYNC

NO VERT SYNC: Vert (IC501).

NO HORIZ SYNC: Horiz (IC501).

NO VERT/HORIZ SYNC: Sync (IC501).

RASTER

YELLOW (NO BLUE): Chroma (IC301), B Out, CRT.

CYAN (NO RED): Chroma (IC301), R Out, CRT.

MAGENTA (NO GREEN): Chroma (IC301), G Out, CRT.

SWEEP

NO RASTER, HAS SOUND: HV Rect (T503), D507, CRT.

NO RASTER, NO SOUND: Horiz (IC501)/Drive/Out, D507.

NO VERT DEFLECTION: Vert (IC501)/Drive/Out.

POOR VERT LIN OR FOLDOVER: V Drive/Out.

POOR HORIZ LIN OR FOLDOVER: H Drive/Out, D507.

NARROW PICTURE: H Drive/Out, D507.

VERT OFF FREQUENCY: Vert (IC501).

HORIZ OFF FREQUENCY: Horiz (IC501).

COLOR (B/W operating normally)

NO COLOR: Chroma (IC301).

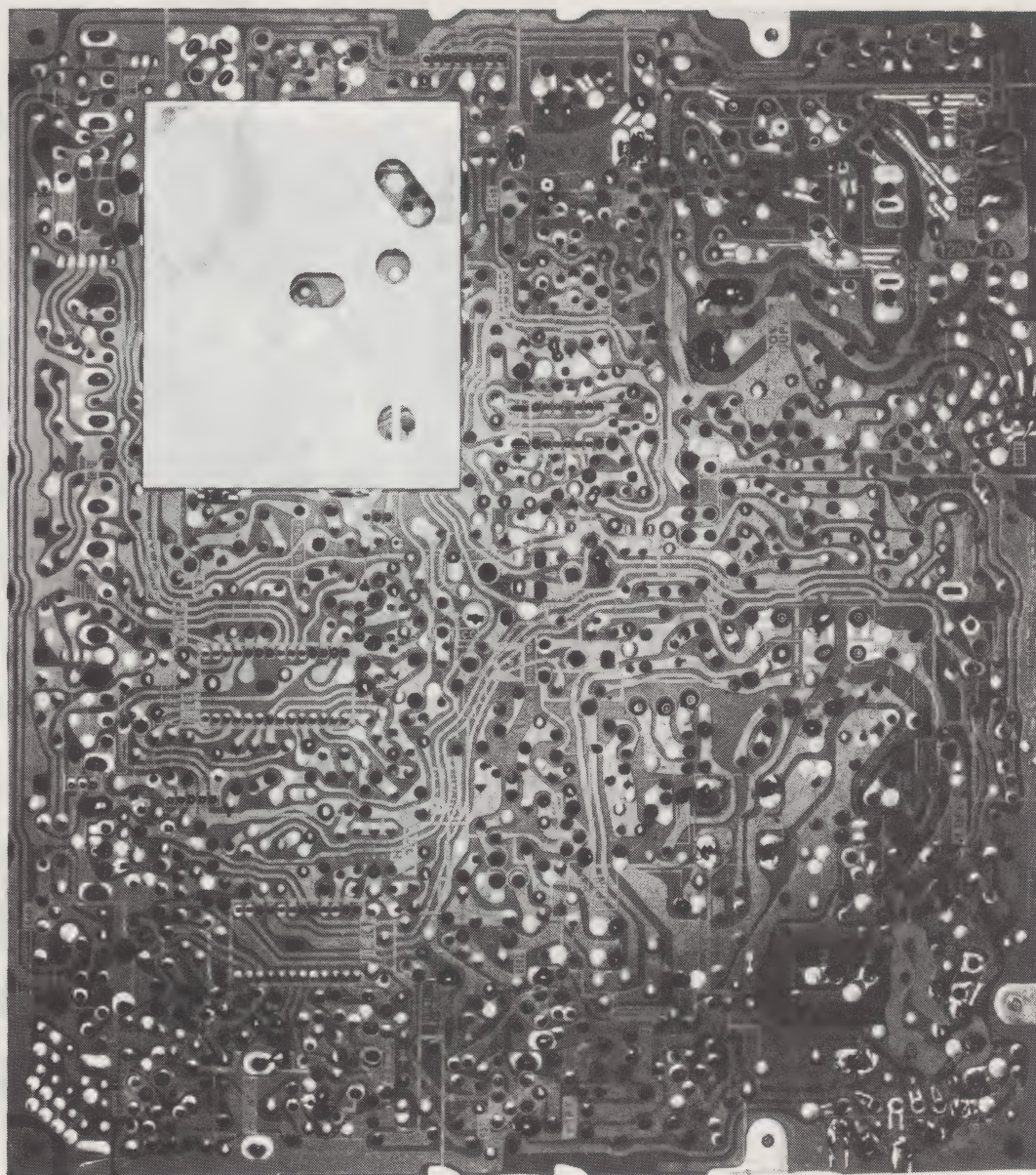
WEAK COLOR: Chroma (IC301).

NO GREEN: Chroma (IC301), G Out.

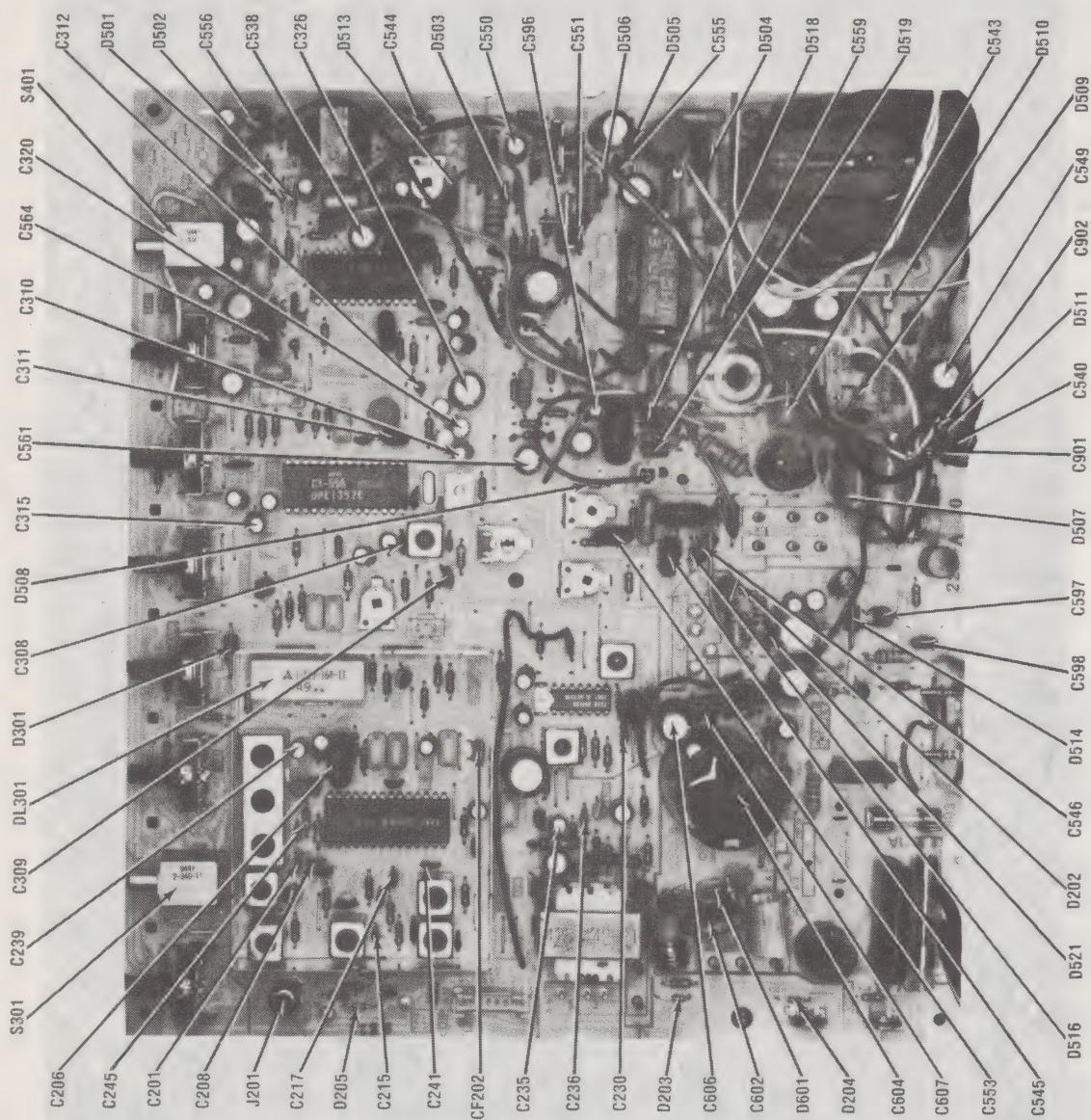
NO BLUE: Chroma (IC301), B Out.

NO RED: Chroma (IC301), R Out.

INCORRECT HUE (TINT): Chroma (IC301).

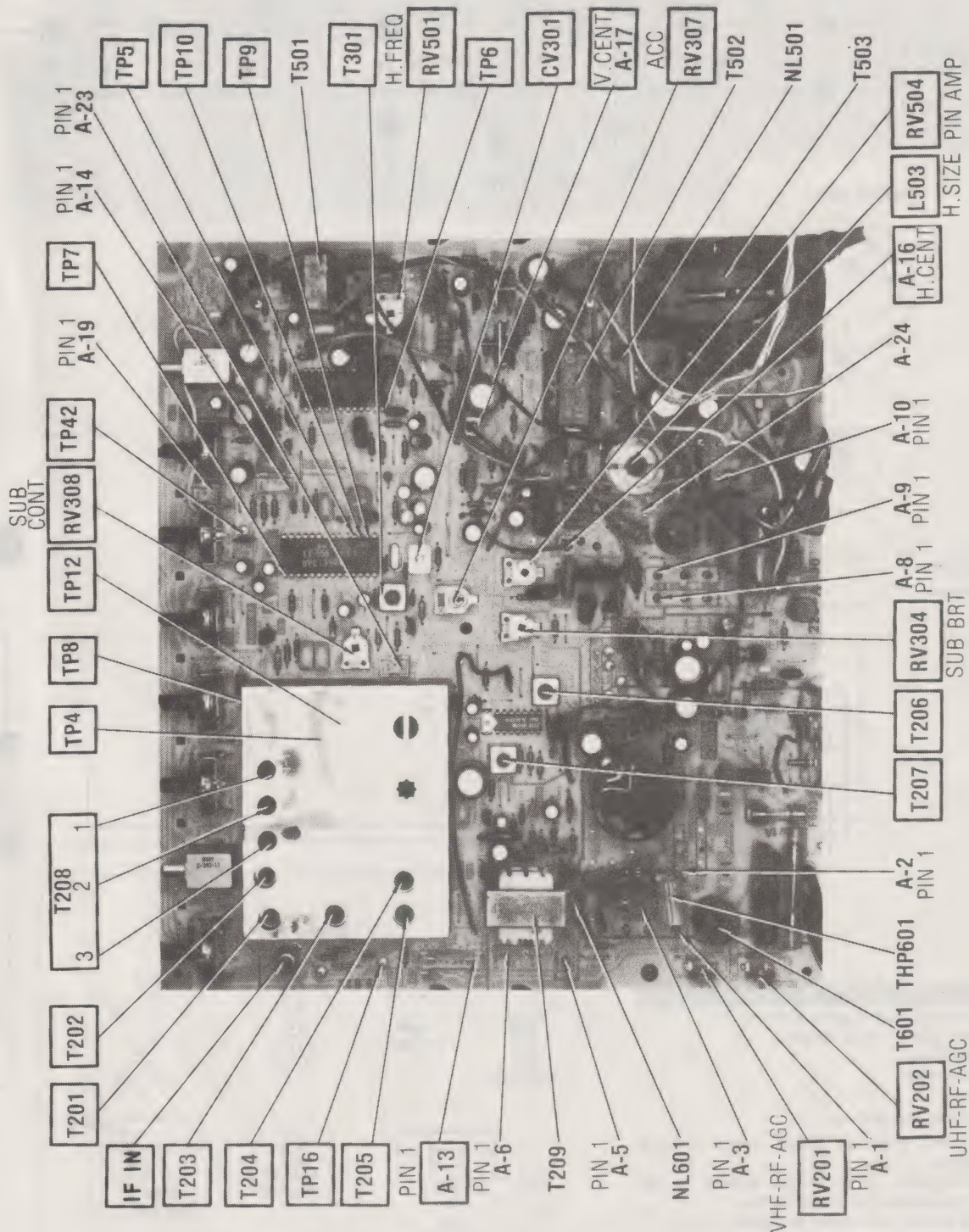


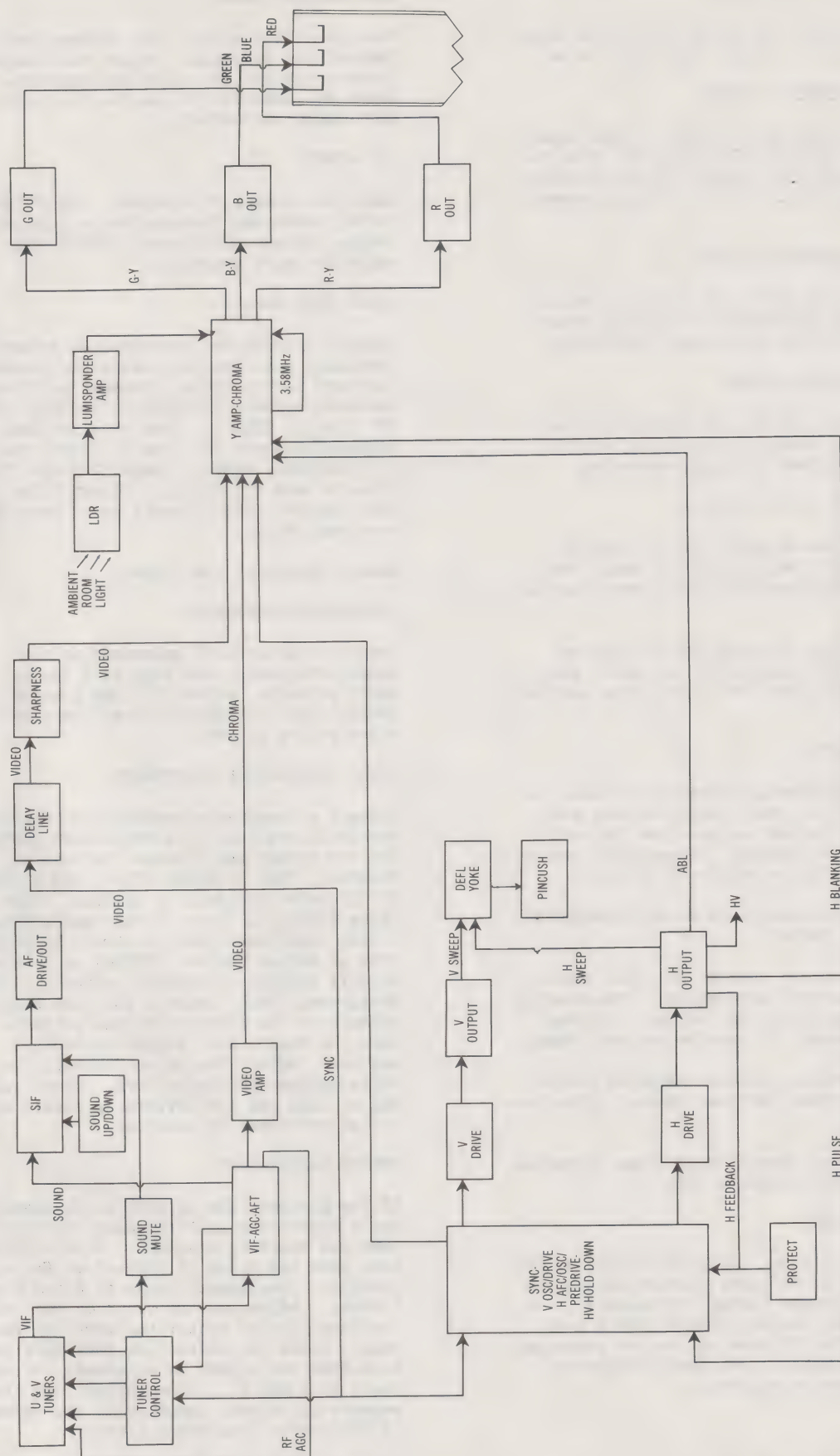
A BOARD-VIF, SIF, AGC, CHROMA, Y AMP, HV DEF, POWER SUPPLY-
SHIELD LOCATION



A BOARD-V IF, SIF, AGC, CHROMA, Y AMP, H/V DEF, POWER SUPPLY

A BOARD-VIF, SIF, AGC, CHROMA, Y AMP, HV DEF, POWER SUPPLY





BLOCK DIAGRAM

MISCELLANEOUS ADJUSTMENTS

HORIZONTAL SIZE ADJUSTMENT

Tune in a picture and adjust Horizontal Size Control (L503) for proper horizontal size.

HORIZONTAL FREQUENCY ADJUST

Tune in a TV station. Connect a .1uF capacitor from TP6 (Pin 24 of IC501), low side to ground. Adjust RV501 until picture stops or slowly floats across screen. Remove capacitor.

HORIZONTAL CENTERING ADJUST

Move Connector A-16 to one of the terminals (L, C or R) at Horizontal Centering, whichever gives the best horizontal centering.

VERTICAL CENTERING ADJUST

Move Connector A-17 to one of the terminals (U, C or D) at Vertical Centering, whichever gives the best vertical centering.

VHF AND UHF RF AGC ADJUSTMENT

Tune in a medium strength VHF TV station. Turn VHF-RF-AGC Control (RV201) until snow appears and then back off until snow just disappears.

Tune in a medium strength UHF TV station. Turn UHF-RF-AGC Control (RV202) until snow appears and then back off until snow just disappears.

CHANNEL PRESETTING

In addition to fourteen buttons provided for channel selection, two tuning buttons and a Channel Set switch are provided for automatic electronic tuning. Three LED's indicate VHF Low, VHF High or UHF being received.

Move Channel Set switch to On and momentarily depress Clear button.

Momentarily depress channel selector button for channel number to be preset. Momentarily depress Tuning up or down button. Depress again if necessary to receive desired channel.

Momentarily depress channel selector button and tuning buttons for each channel to be preset.

After completing channel presetting procedure move Channel Set switch to Off.

SUB BRIGHT ADJUST

Tune in a TV station. Set Auto Switch to Off, Color Control to MINIMUM, Picture Control to MINIMUM, and Bright Control to midrange. Adjust Sub Bright Control (RV304) for a soft brightness. Set Picture Control to midrange, check all channels to see that brightness does not change excessively.

SUB CONTRAST ADJUST

Tune in a TV station. Set Picture and Bright Controls to midrange. Adjust Sub Contrast Control (RV308) for suitable contrast. Check all channels to see that contrast does not change excessively.

ACC ADJUST

Tune in a strong TV station. Set AFT Switch to On, Color and Picture Controls to midrange. Adjust ACC Control (RV307) for suitable color intensity.

COLOR SYNC ADJUST

Connect a color bar generator to antenna terminals and tune in a color bar pattern. Set Auto Switch to On. Connect a 27K-ohm resistor between TP5 (Pin 18, IC301) and TP7 (Pin 1, IC301). Connect a 10K-ohm resistor between TP7 (Pin 1, IC301) and TP8 (Cathode, D301). Jumper TP9 and TP10 (Pins 16 and 17, IC301). Adjust Color Sync Control (CV301) until color bars stop or slowly float.

Remove resistors and jumper.

PINCUSHION ADJUSTMENT

Connect a crosshatch generator to the antenna terminals and tune in a crosshatch pattern. Adjust Pin Amp Control (RV504) for straight vertical lines at the sides of the screen.

COLOR TEMPERATURE ADJUSTMENT

Connect a crosshatch generator to the antenna terminals and tune in a crosshatch pattern. Set the Bright and Picture Controls to MINIMUM. Turn G (Green RV704) and B (Blue RV702) Drive Controls to maximum. Turn R (Blue RV701), G (Green RV703) and R (Red RV705) Background (BKG) Controls to midrange. Turn G2 Adjust Control (RV706) to obtain a faintly visible crosshatch pattern. Adjust Background (BKG) Controls for best white balance on the faintly visible pattern. Turn the Bright and Picture Controls to maximum. Adjust the Drive Controls for best white balance on the pattern. Check tracking at high and low brightness levels and repeat procedure if necessary.

PURITY ADJUSTMENTS

If the picture tube appears to be magnetized, use a degaussing coil to demagnetize picture tube and mounting brackets. Loosen deflection yoke and slide it forward as far as possible. Disconnect leads at B and G on C Board. Adjust purity rings on rear of deflection yoke to center the vertical red band. Slide the deflection yoke back until a uniform red screen is obtained. Reconnect leads at B and G. If necessary, use disc magnets to correct impurity at the corners of the screen (see Parts List).

Place disc magnets at rear corners of the picture tube.

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

Remove five screws holding cabinet back, disconnect antenna leads and remove back. Disconnect CRT socket, HV anode lead, connector C-2 from C Board, connectors A-2, A-6, A-8, A-9, and A-28 from A Board and ground wires. Remove one screw holding horiz stat control to degaussing coil shield, two screws holding tuner to degaussing coil shield and remove from cabinet. Remove two screws holding master on/off switch to cabinet, one screw holding lumisponder to cabinet front and six screws holding channel selector assembly to cabinet front and remove from cabinet. Lamps are now accessible for servicing. Release latches at sides of A Board and slide A Board out of cabinet.

CRT REMOVAL

Follow "Chassis Removal" procedure and lay set facedown on a soft protective surface. Loosen and remove CRT neck assembly, remove four screws holding degaussing coil shield and CRT, lift shield and CRT out of cabinet. Do not lift CRT by the neck.

MISCELLANEOUS ADJUSTMENTS (Continued)

CONVERGENCE ADJUSTMENTS

Connect a crosshatch generator to the antenna terminals and tune in a dot pattern. Adjust the Horizontal Static Control (RV901) to converge the red and blue dots horizontally over the green dot at the center of the screen. Rotate the Vertical Static Magnets to converge the red and blue dots vertically over the green dot at the center of the screen.

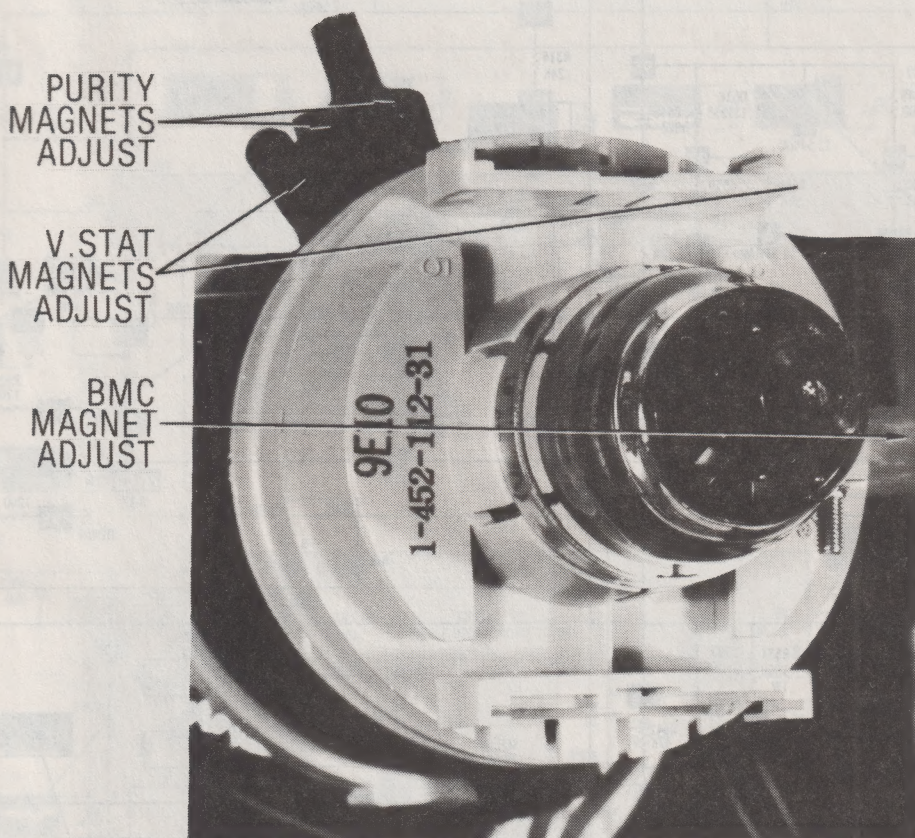
NOTE: Rotate the two Vertical Static Magnets equally, one to the right and one to the left from vertical position. NOTE: Some versions may use a BMC Magnet. To adjust the BMC Magnet slide it in and out to correct for insufficient horizontal static convergence. Rotate the BMC Magnet to correct for insufficient vertical static convergence.

Tune in a crosshatch pattern. If necessary, remove the rubber wedges between the deflec-

tion yoke and picture tube. Tilt the deflection yoke up or down to converge the vertical lines at the top and bottom of the screen and the horizontal lines at the right and left sides of the screen. Tilt the deflection yoke to the right or left to converge the horizontal lines at the top and bottom of the screen and vertical lines at the right and left sides of the screen. Replace the rubber wedges.

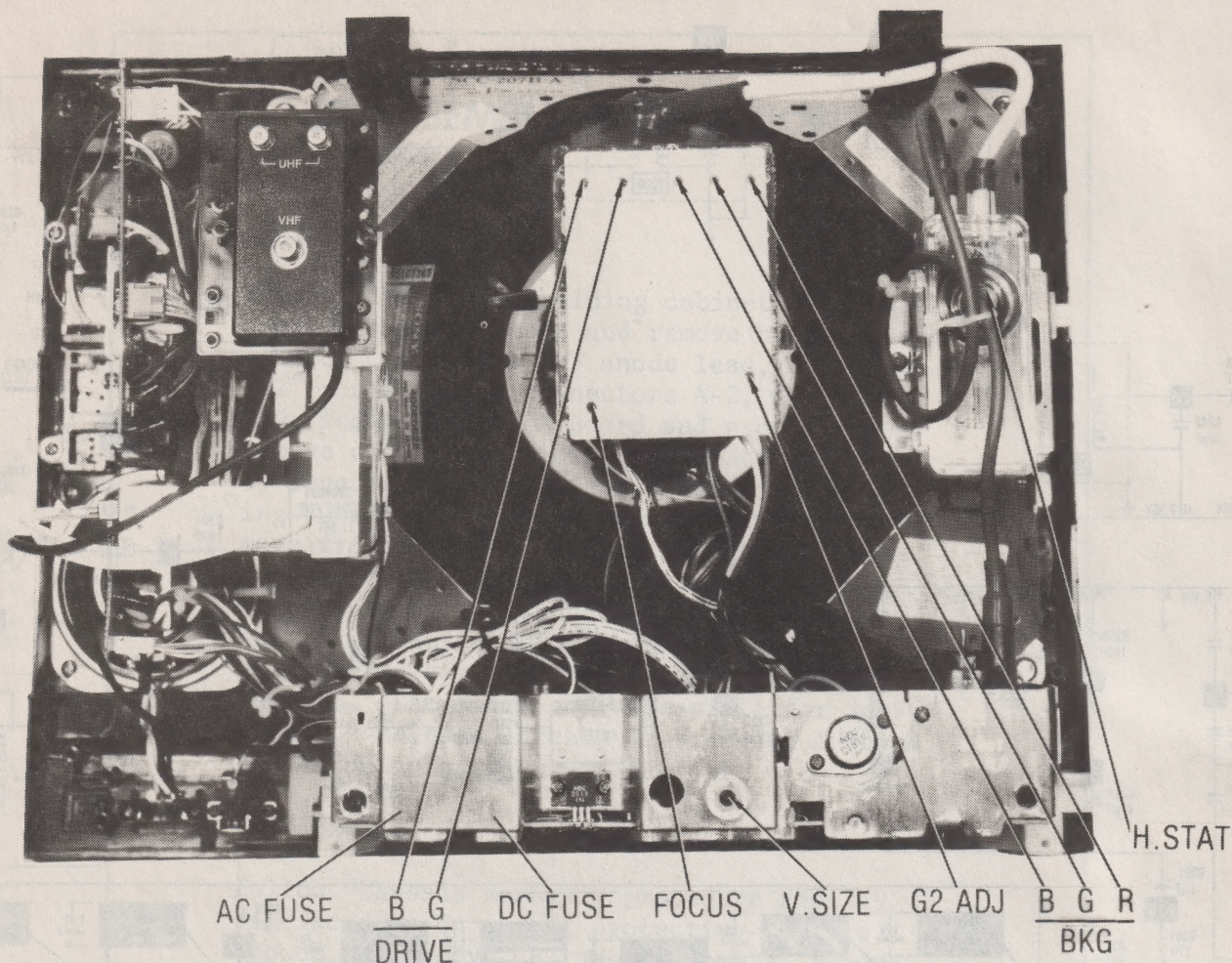
To correct the convergence at the corners of the screen, slide a permalloy magnet assembly between the picture tube and the deflection yoke behind the areas affected on the screen. Position the permalloy assemblies for the best horizontal and vertical convergence correction in the corners affected.

Repeat appropriate convergence procedure if necessary to obtain the best overall convergence.



SONY MODEL KV-1543R
(Ch. SCC-207B-A)

FOLDER 2
CRT NECK ASSEMBLY



CABINET-REAR VIEW

SERVICING IN THE FIELD

CRT IMPLOSION PROTECTION AND CLEANING

Implosion protection is an integral part of the picture tube, cleaning accomplished without CRT removal.

FUSE DEVICES

A 1-amp fuse is used for low-voltage power-supply protection. (See Placement Chart.)

A 4-amp fuse is used for AC line protection. (See Placement Chart.)

LAMP ACCESSIBILITY

Tuner assembly must be removed. See Disassembly Instructions.

VHF/UHF TUNER

See Miscellaneous Adjustments.

HORIZONTAL OSCILLATOR

Adjustment of the horizontal hold is accomplished by the proper setting of the horiz frequency control. (See Placement Chart.)

WIDTH

The width may be varied by adjusting the horiz size coil. (See Placement Chart.)

FOCUS

The focus may be varied by a focus control. (See photo, Cabinet-Rear View.)

AGC

The AGC may be varied by RF AGC U and RF AGC V controls. (See Placement Chart.)

CENTERING

Horizontal centering is accomplished by proper placement of the horizontal centering jumper. (See Placement Chart.)

Vertical centering is accomplished by proper placement of the vertical centering jumper. (See Placement Chart.)